

Data File : VV013008.D
Acq On : 27 Sep 2019 14:54
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5..00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

Quant Time: Sep 27 22:54:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 22:50:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	795411	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	753855	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	410915	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	267310	21.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.64%
7) Chloroethane-d5	1.58	69	210721	21.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.48%
10) 1,1-Dichloroethene-d2	2.13	63	468946	22.85	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.40%
20) 2-Butanone-d5	3.93	46	189630	44.50	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.00%
24) Chloroform-d	4.40	84	493802	22.60	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.08	65	273274	21.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.08%
29) Benzene-d6	5.09	84	995996	23.66	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.64%
33) 1,2-Dichloropropane-d6	6.11	67	308806	23.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.64%
37) Toluene-d8	7.36	98	930206	24.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.40%
38) trans-1,3-Dichloropropene-	7.66	79	124976	22.37	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.48%
39) 2-Hexanone-d5	8.13	63	131494	49.53	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.06%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	284589	22.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	360577	22.59	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.36%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	253825	28.976	ug/L	99
3) Chloromethane	1.25	50	302717	26.462	ug/L	99
5) Vinyl chloride	1.32	62	309264	27.383	ug/L	99
6) Bromomethane	1.53	94	178395	25.303	ug/L	100
8) Chloroethane	1.60	64	180822	26.054	ug/L	100
9) Trichlorofluoromethane	1.77	101	415125	27.176	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	258457	26.473	ug/L	99
12) 1,1-Dichloroethene	2.14	96	236877	26.344	ug/L	97
13) Acetone	2.20	43	212600	46.940	ug/L	99
14) Carbon disulfide	2.32	76	728237	25.355	ug/L	100
15) Methyl Acetate	2.46	43	150860	21.475	ug/L	100
16) Methylene chloride	2.53	84	291235	24.496	ug/L	99
17) Methyl tert-butyl Ether	2.80	73	630075	23.882	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	272538	25.607	ug/L	99
19) 1,1-Dichloroethane	3.23	63	497127	25.596	ug/L	99
21) 2-Butanone	4.02	43	219723	41.686	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	292277	25.092	ug/L	99

Data File : VV013008.D
Acq On : 27 Sep 2019 14:54
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5..00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

Quant Time: Sep 27 22:54:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 22:50:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	136705	23.760	ug/L	96
25) Chloroform	4.42	83	499808	24.544	ug/L	100
27) 1,2-Dichloroethane	5.17	62	346105	24.047	ug/L	100
30) Cyclohexane	4.72	56	466326	28.833	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	409562	27.451	ug/L	99
32) Carbon tetrachloride	4.87	117	371438	27.456	ug/L	99
34) Benzene	5.14	78	1132255	26.982	ug/L	100
35) Trichloroethene	5.96	95	304207	26.024	ug/L	99
36) Methylcyclohexane	6.17	83	508024	28.310	ug/L	99
40) 1,2-Dichloropropane	6.22	63	288545	26.442	ug/L	99
41) Bromodichloromethane	6.55	83	357226	25.558	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	430815	26.868	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	435182	48.540	ug/L	100
44) Toluene	7.43	91	1232879	27.857	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	350335	25.960	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	226432	24.442	ug/L	98
47) Tetrachloroethene	8.02	164	255393	26.881	ug/L	98
49) 2-Hexanone	8.18	43	335172	49.596	ug/L	98
50) Dibromochloromethane	8.29	129	264296	24.822	ug/L	100
51) 1,2-Dibromoethane	8.39	107	225039	24.788	ug/L	98
52) Chlorobenzene	8.92	112	793779	25.990	ug/L	100
53) Ethylbenzene	9.05	91	1374122	28.199	ug/L	99
54) m,p-Xylene	9.18	106	528971	28.554	ug/L	100
55) o-xylene	9.59	106	501899	28.435	ug/L	98
56) Styrene	9.60	104	875689	28.196	ug/L	98
57) Isopropylbenzene	9.97	105	1363933	29.403	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	283472	24.737	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	227455	24.048	ug/L	100
62) Bromoform	9.77	173	168505	24.166	ug/L	97
63) 1,3-Dichlorobenzene	11.22	146	664054	26.254	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	674564	25.411	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	616498	25.553	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	47092	22.016	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	529804	26.777	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	448753	25.937	ug/L	100
69) Naphthalene	13.55	128	870966	25.029	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	428947	25.786	ug/L	99

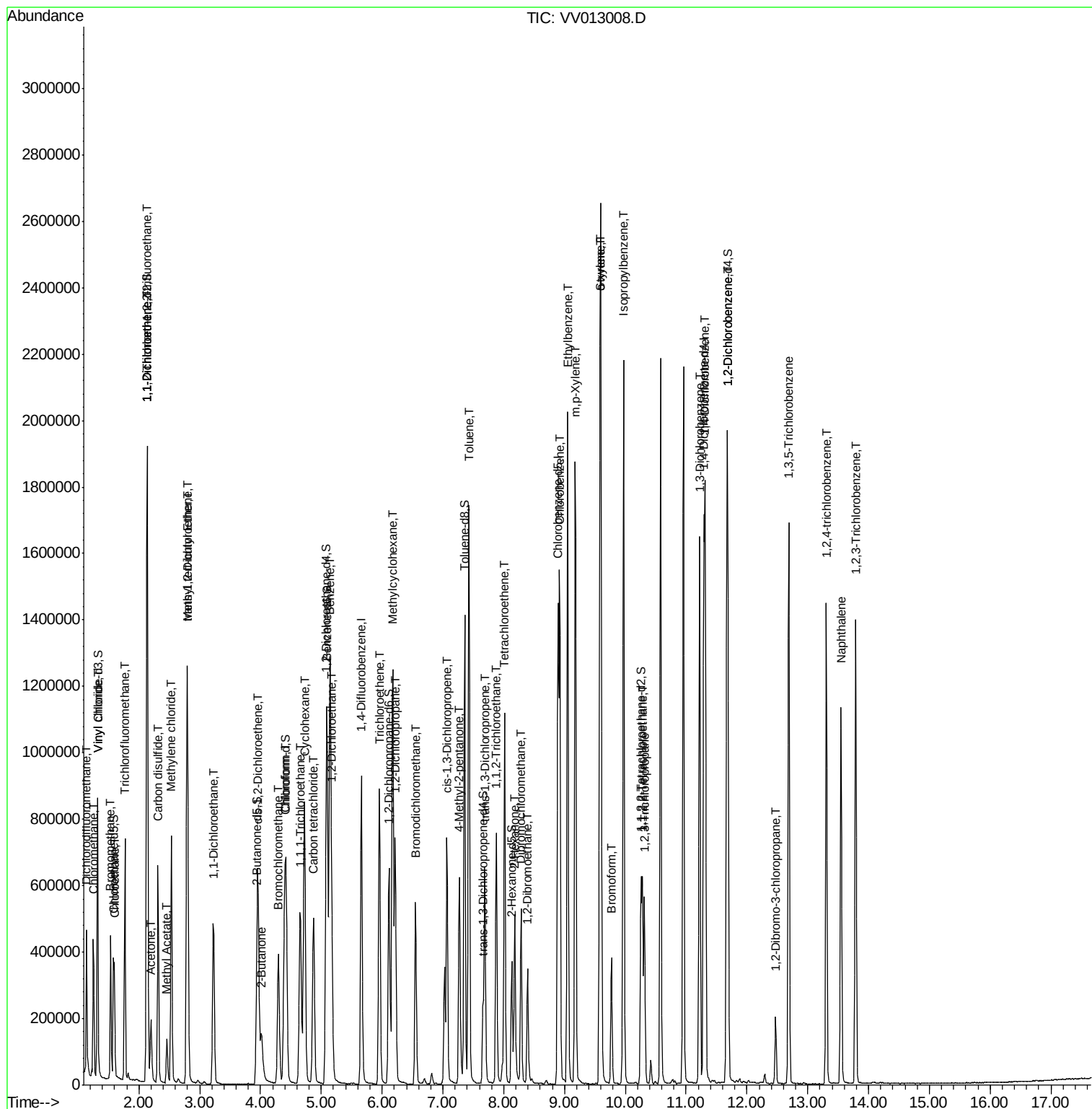
(#) = qualifier out of range (m) = manual integration (+) = signals summed

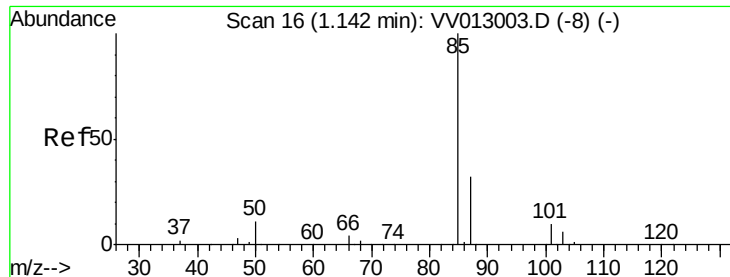
Data File : VV013008.D

```
Acq On       : 27 Sep 2019   14:54
Operator     : SY/MD
Sample       : VSTDCCC025EC
Misc         : 5..00G/10ML/MSVOA_V/SOIL
ALS Vial     : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

Quant Time: Sep 27 22:54:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 22:50:49 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 28.976 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampled :

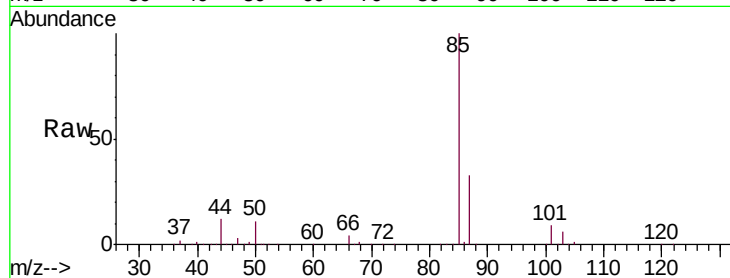
VSTD02576

Tgt Ion: 85 Resp: 253825

Ion Ratio Lower Upper

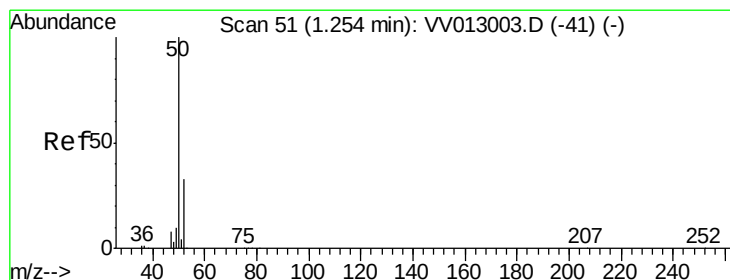
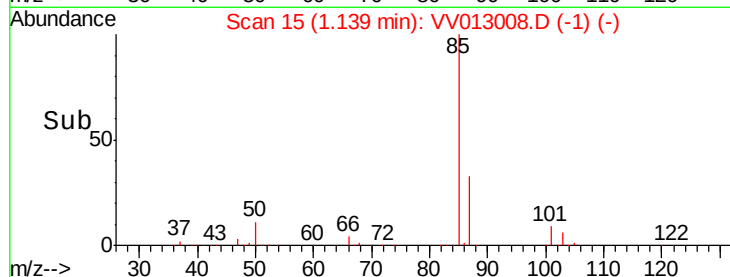
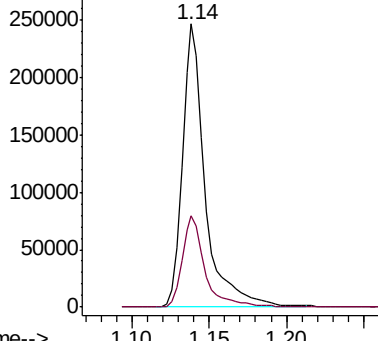
85 100

87 32.5 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 26.462 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013008.D

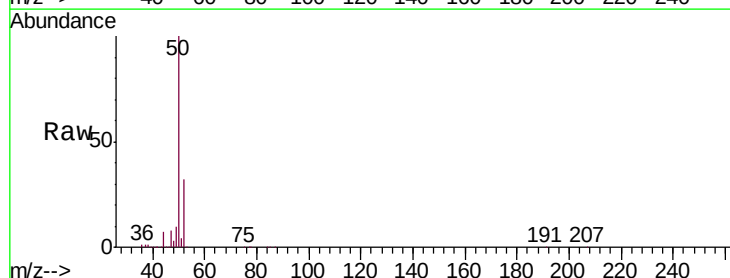
Acq: 27 Sep 2019 14:54

Tgt Ion: 50 Resp: 302717

Ion Ratio Lower Upper

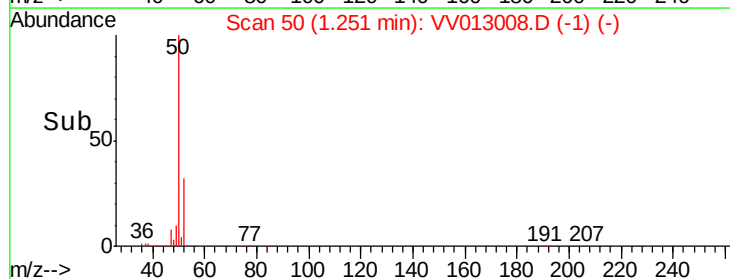
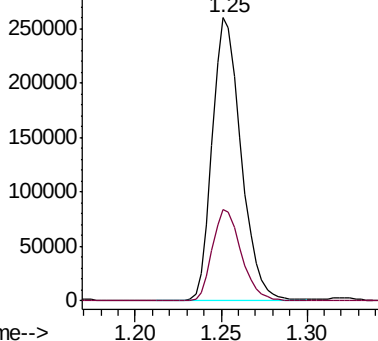
50 100

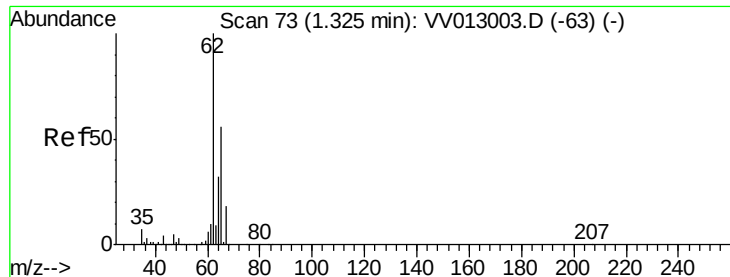
52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 27.383 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

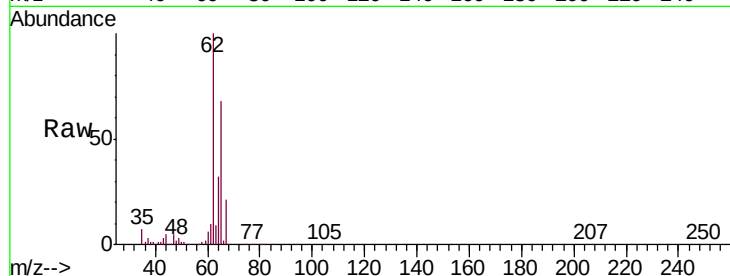
VSTD02576

Tgt Ion: 62 Resp: 309264

Ion Ratio Lower Upper

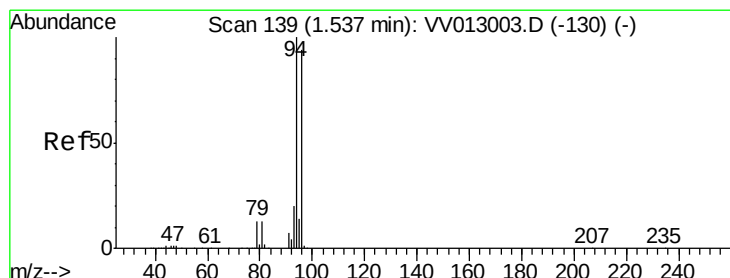
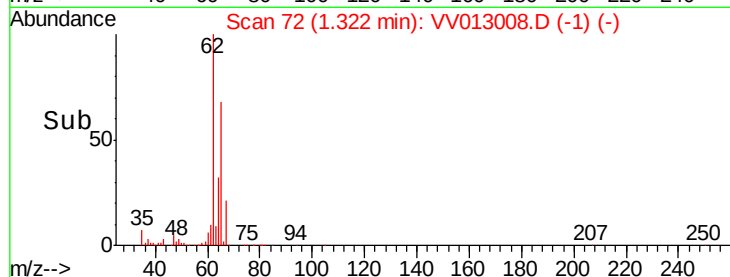
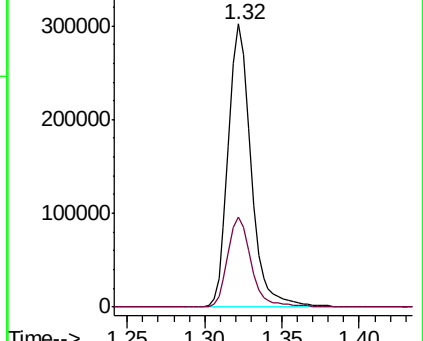
62 100

64 31.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV013003.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV013003.D (-63) (-)



#6

Bromomethane

Concen: 25.303 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013008.D

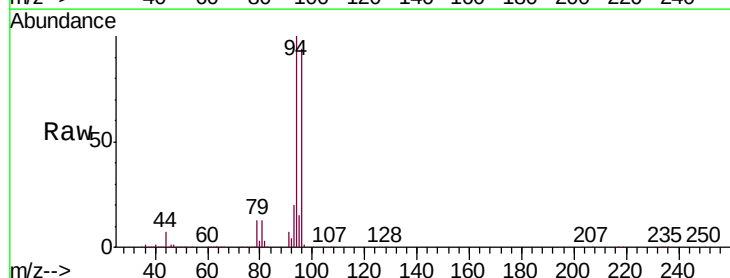
Acq: 27 Sep 2019 14:54

Tgt Ion: 94 Resp: 178395

Ion Ratio Lower Upper

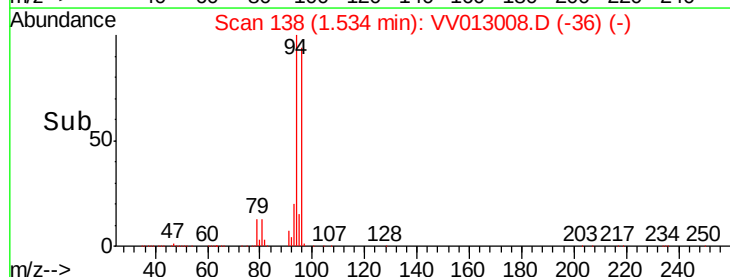
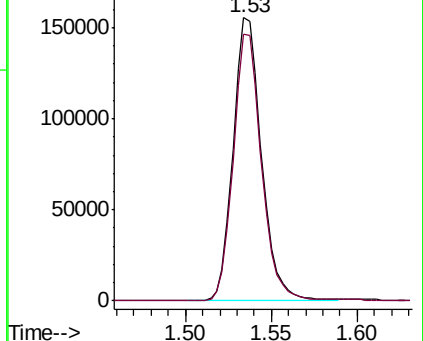
94 100

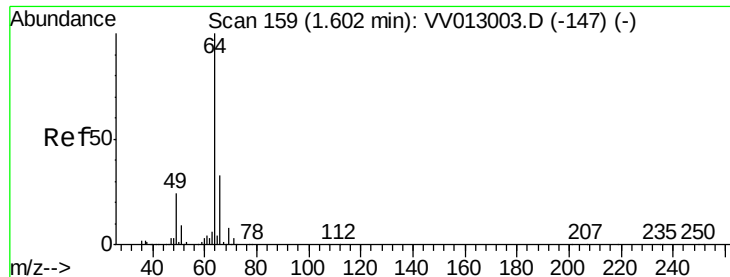
96 93.1 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV013003.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV013003.D (-130) (-)

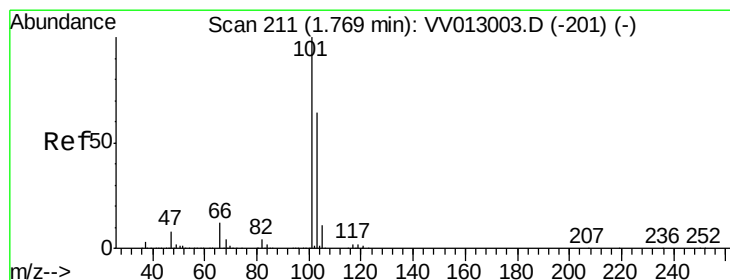
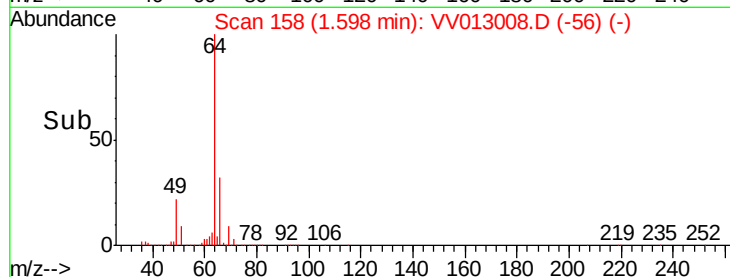
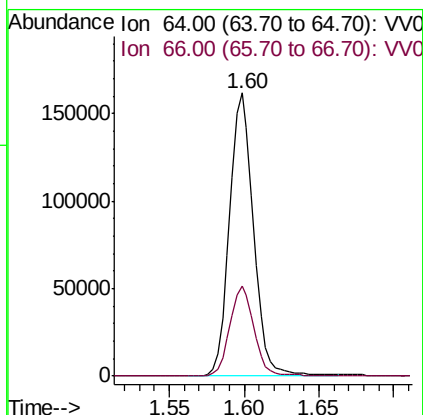
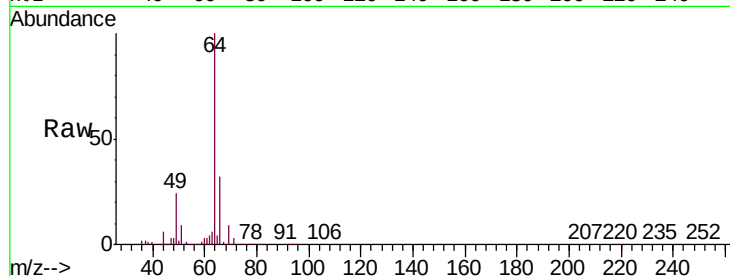




#8
Chloroethane
Concen: 26.054 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

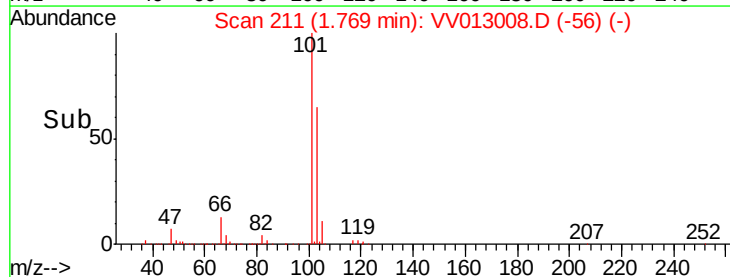
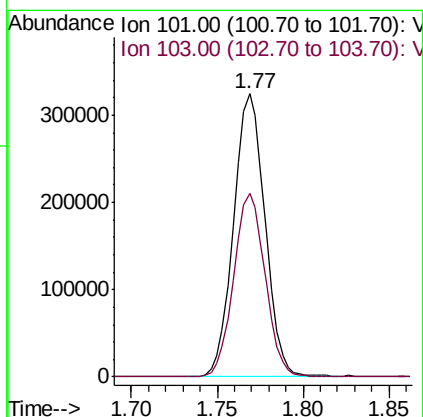
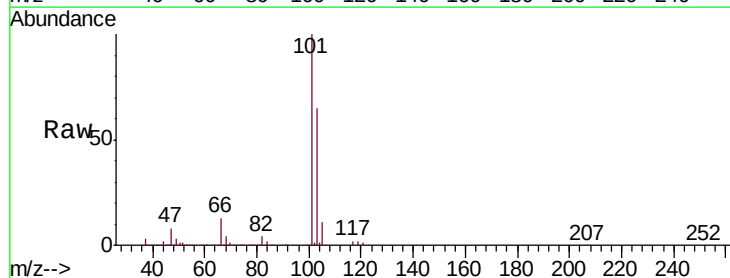
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

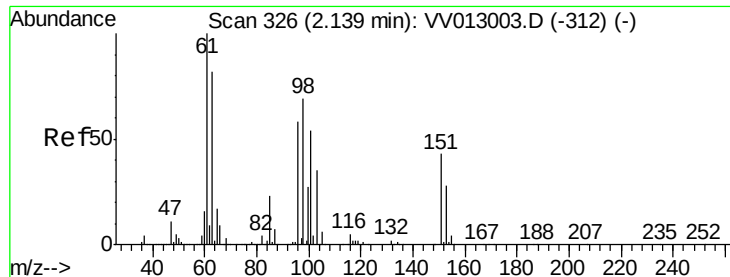
Tgt Ion: 64 Resp: 180822
Ion Ratio Lower Upper
64 100
66 31.7 22.2 41.2



#9
Trichlorofluoromethane
Concen: 27.176 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 101 Resp: 415125
Ion Ratio Lower Upper
101 100
103 64.6 45.1 83.9





#11

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

Concen: 26.473 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

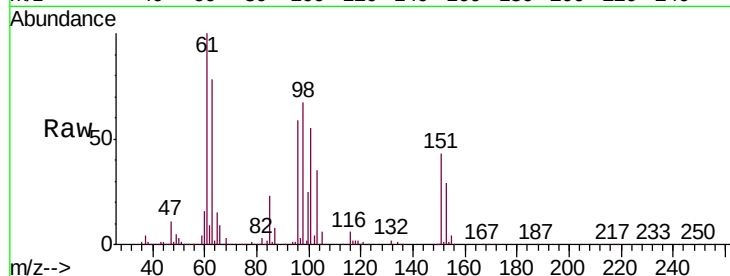
Tgt Ion: 101 Resp: 258457

Ion Ratio Lower Upper

101 100

85 41.2 32.6 49.0

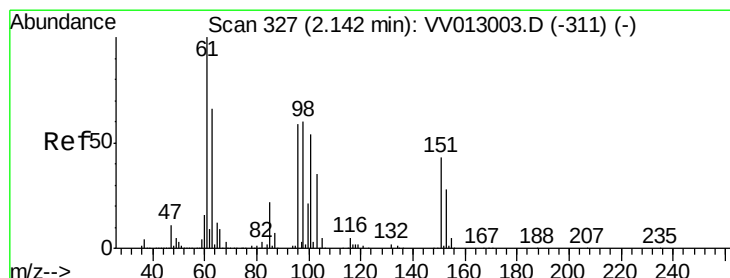
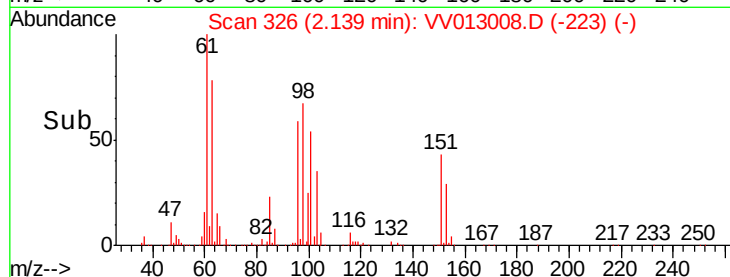
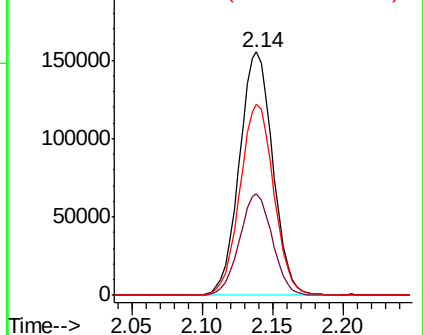
151 79.8 64.2 96.4



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: 26.344 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

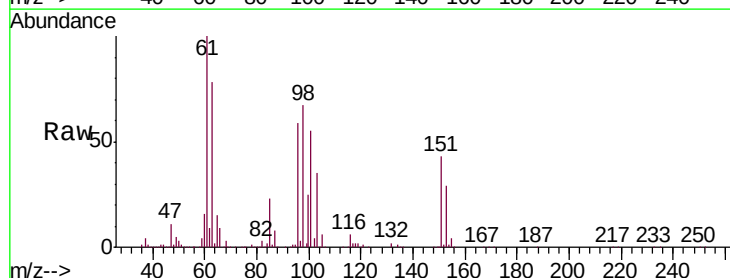
Tgt Ion: 96 Resp: 236877

Ion Ratio Lower Upper

96 100

61 170.1 117.2 217.8

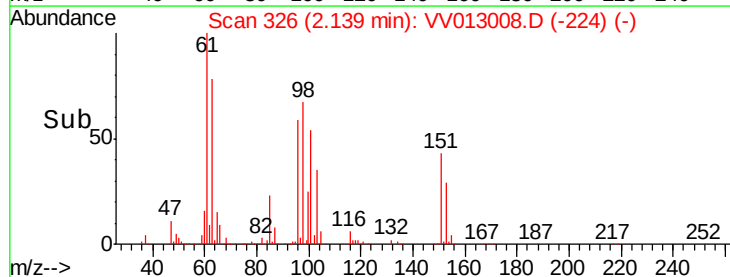
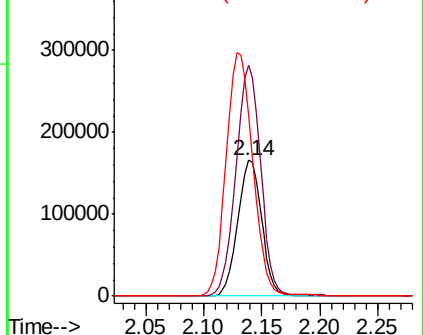
63 132.9 89.6 166.4

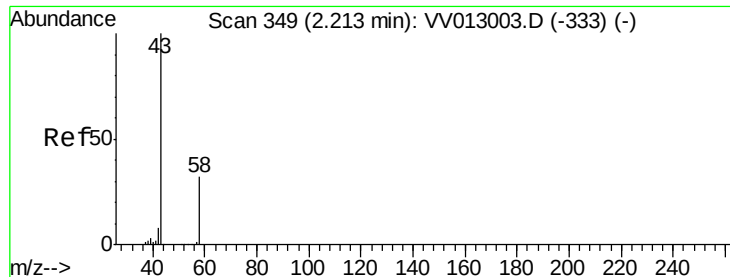


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 46.940 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.02 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

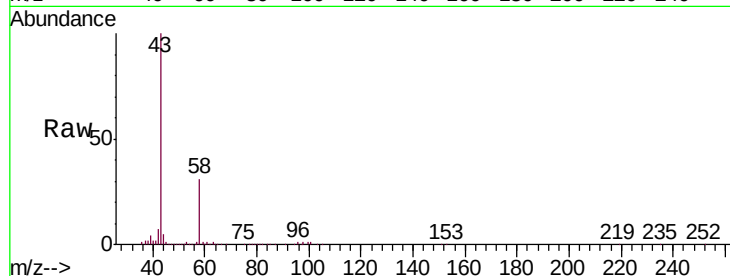
VSTD02576

Tgt Ion: 43 Resp: 212600

Ion Ratio Lower Upper

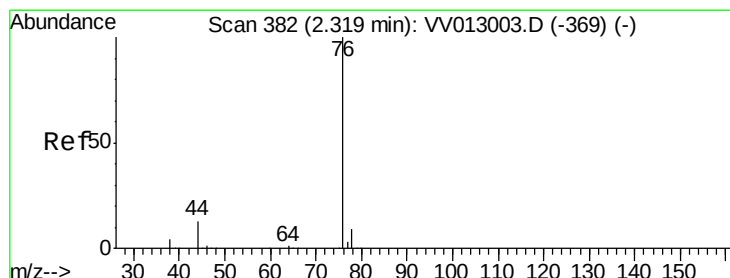
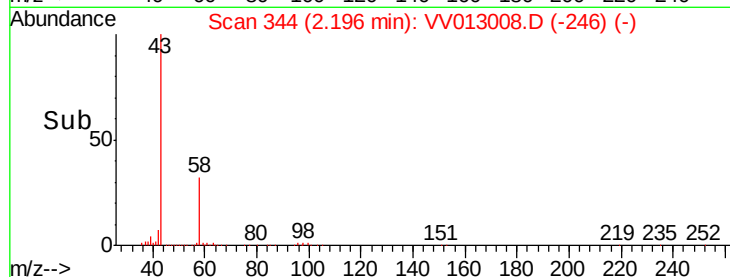
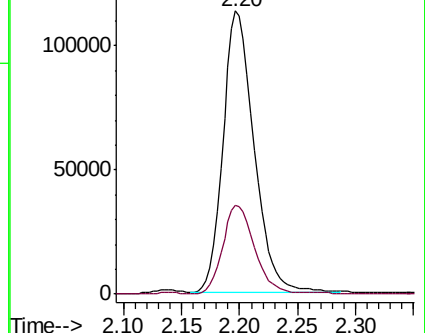
43 100

58 31.7 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VV013003.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV013003.D (-333) (-)



#14

Carbon disulfide

Concen: 25.355 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV013008.D

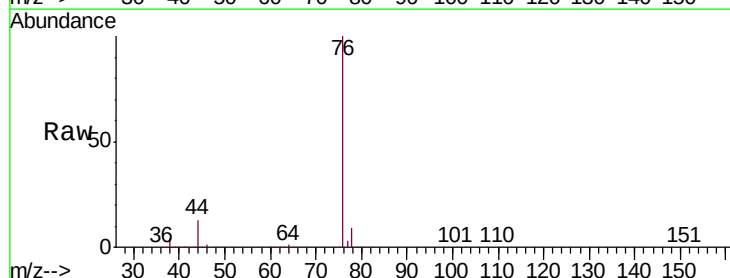
Acq: 27 Sep 2019 14:54

Tgt Ion: 76 Resp: 728237

Ion Ratio Lower Upper

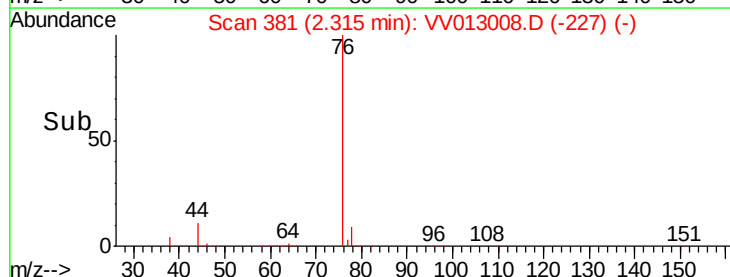
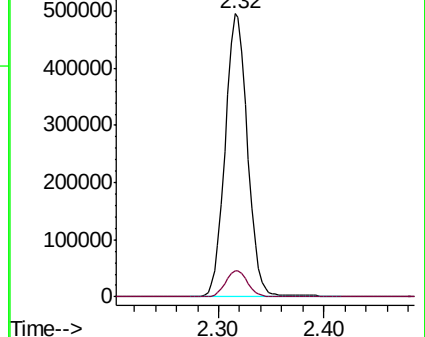
76 100

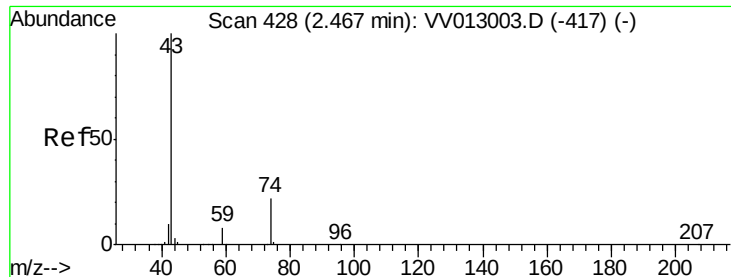
78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV013003.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV013003.D (-369) (-)

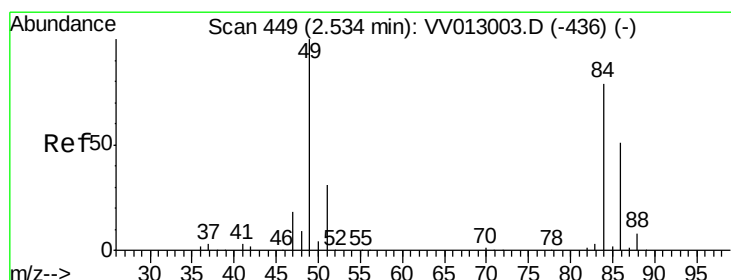
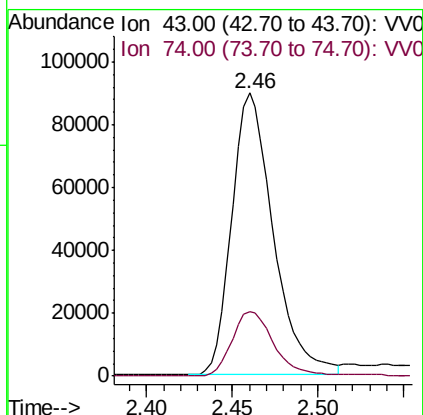
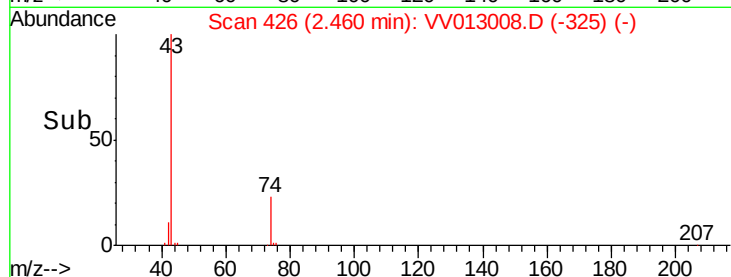
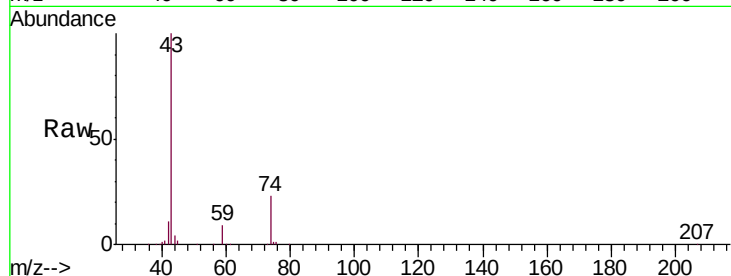




#15
Methyl Acetate
Concen: 21.475 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.01 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

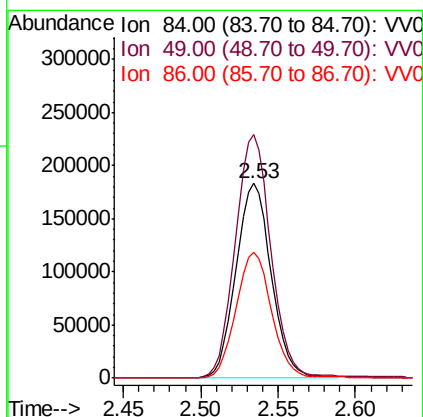
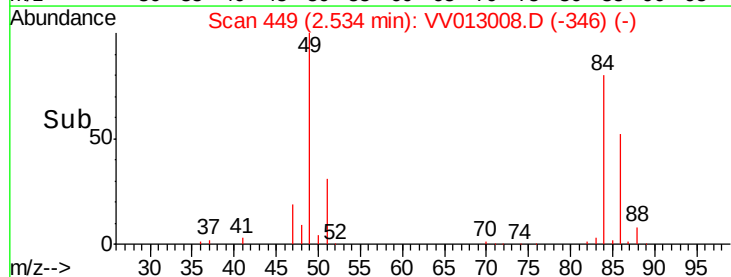
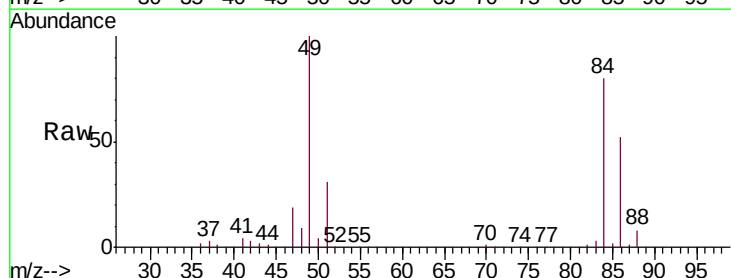
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

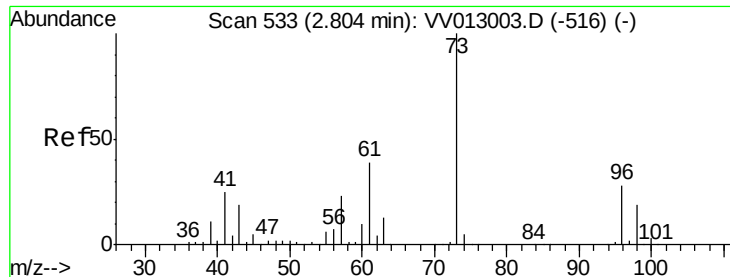
Tgt Ion: 43 Resp: 150860
Ion Ratio Lower Upper
43 100
74 23.3 18.8 28.2



#16
Methylene chloride
Concen: 24.496 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 84 Resp: 291235
Ion Ratio Lower Upper
84 100
49 124.9 88.3 164.1
86 64.5 44.9 83.3

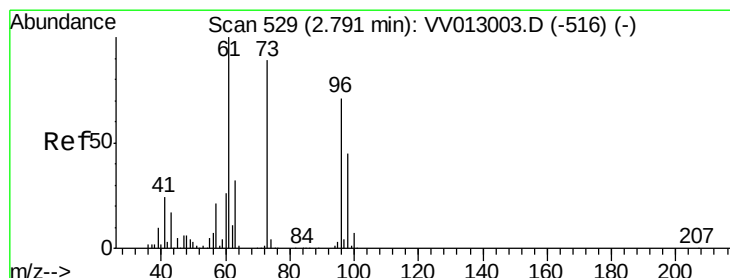
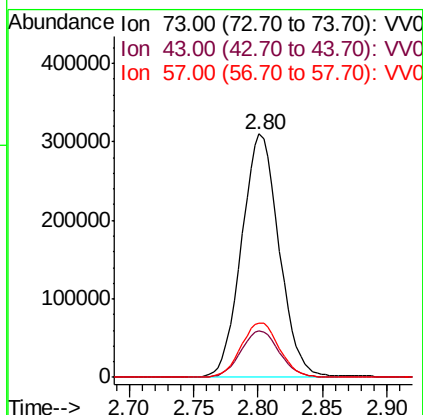
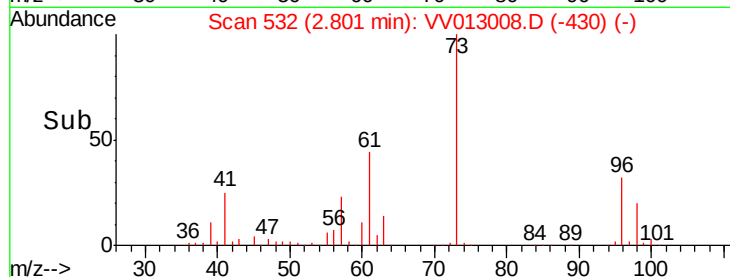
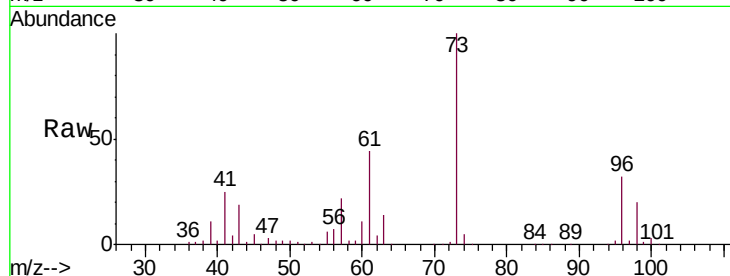




#17
Methyl tert-butyl Ether
Concen: 23.882 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

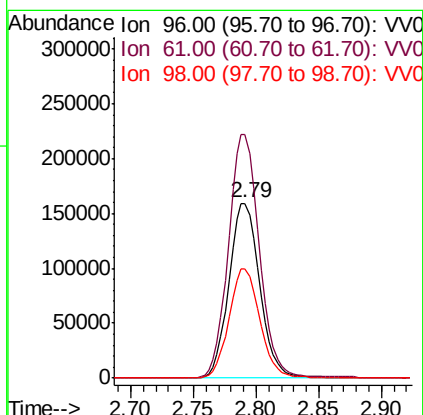
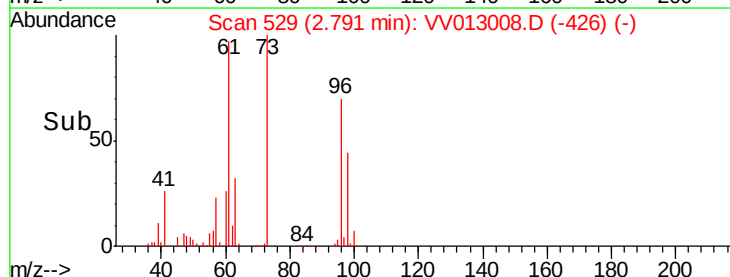
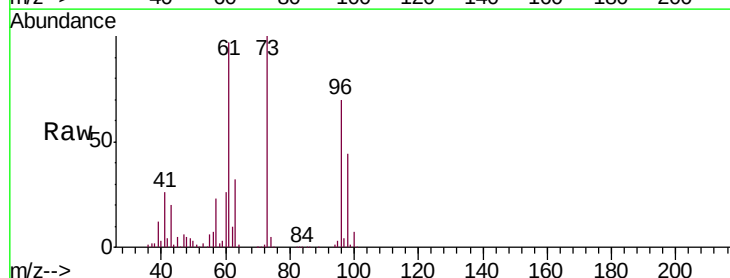
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

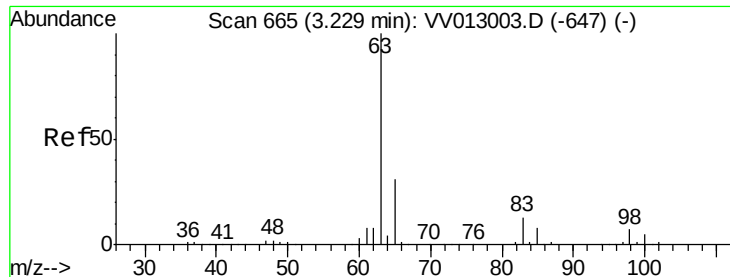
Tgt Ion: 73 Resp: 630075
Ion Ratio Lower Upper
73 100
43 19.3 15.0 22.6
57 22.9 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 25.607 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 96 Resp: 272538
Ion Ratio Lower Upper
96 100
61 138.8 96.8 179.8
98 62.8 44.8 83.2

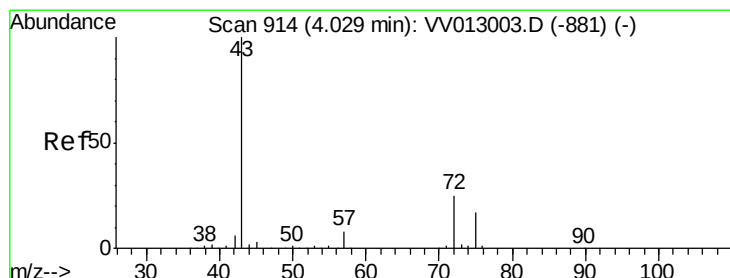
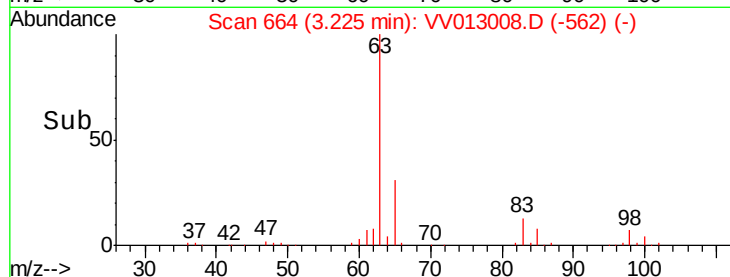
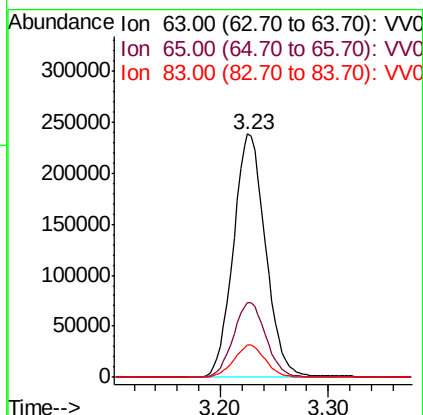
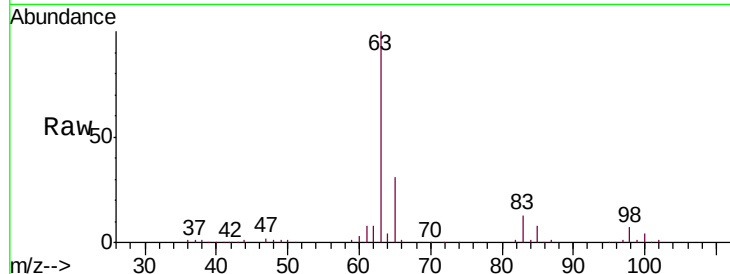




#19
 1,1-Dichloroethane
 Concen: 25.596 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

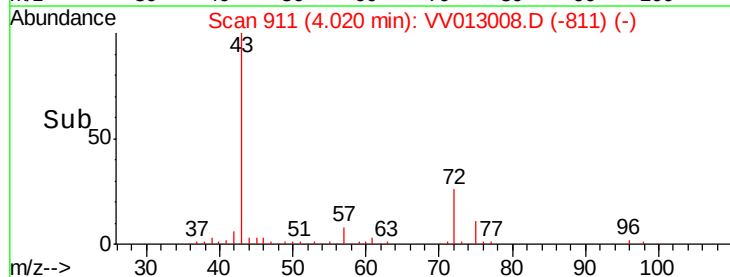
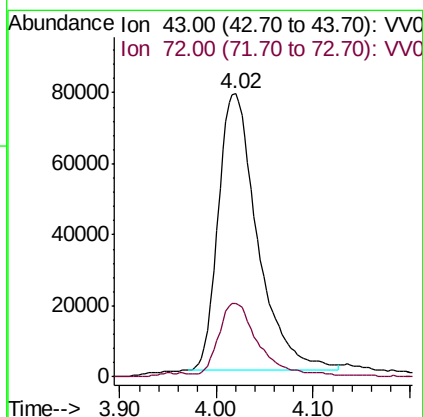
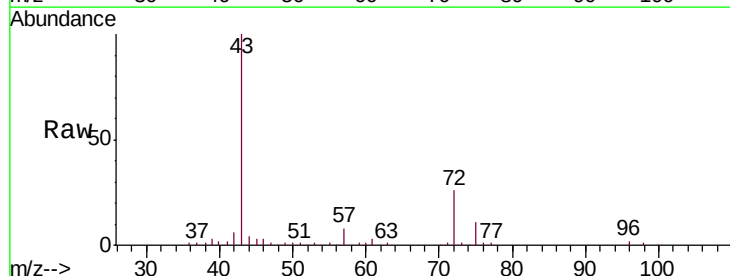
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

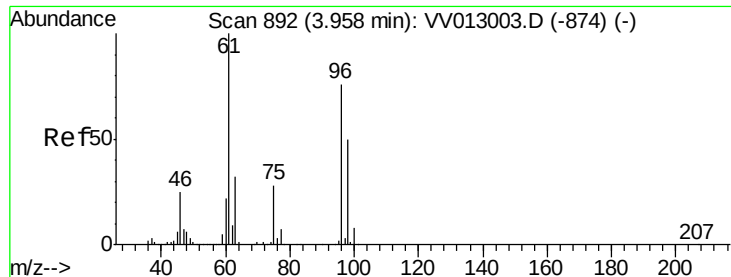
Tgt Ion: 63 Resp: 497127
 Ion Ratio Lower Upper
 63 100
 65 30.7 22.0 41.0
 83 13.2 9.2 17.0



#21
 2-Butanone
 Concen: 41.686 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

Tgt Ion: 43 Resp: 219723
 Ion Ratio Lower Upper
 43 100
 72 24.2 11.9 35.9



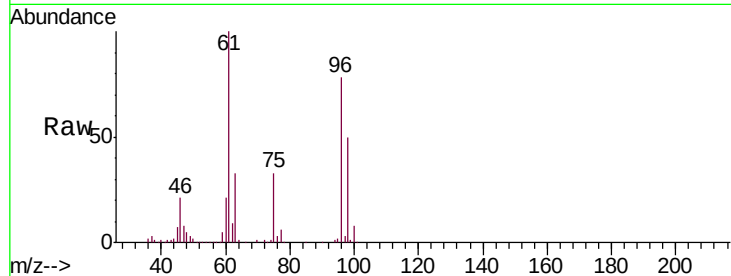


#22

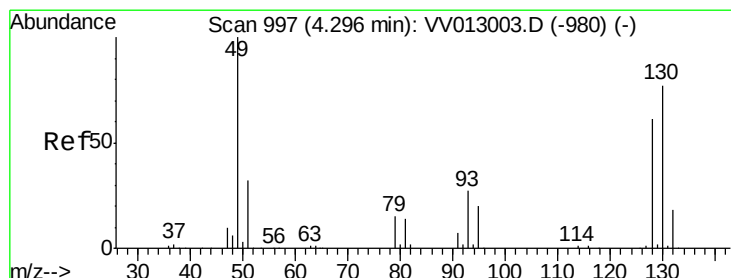
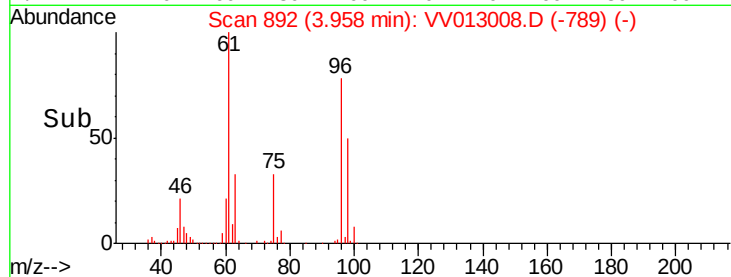
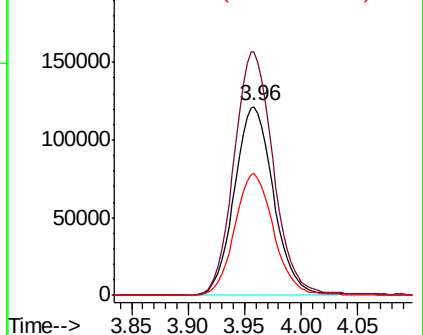
cis-1,2-Dichloroethene
Concen: 25.092 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

Tgt Ion: 96 Resp: 292277
Ion Ratio Lower Upper
96 100
61 128.7 90.9 168.7
98 64.5 45.6 84.6



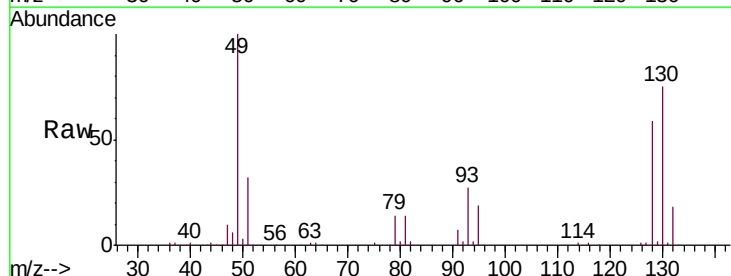
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



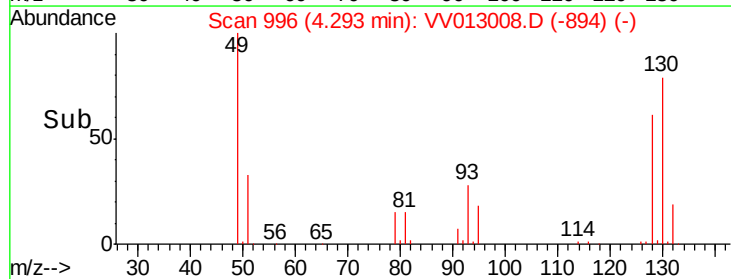
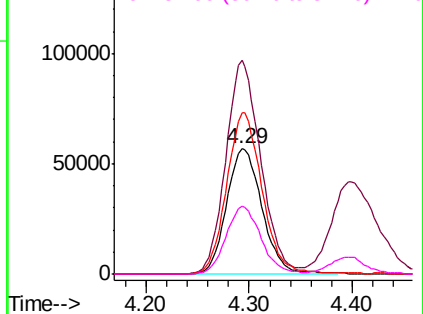
#23

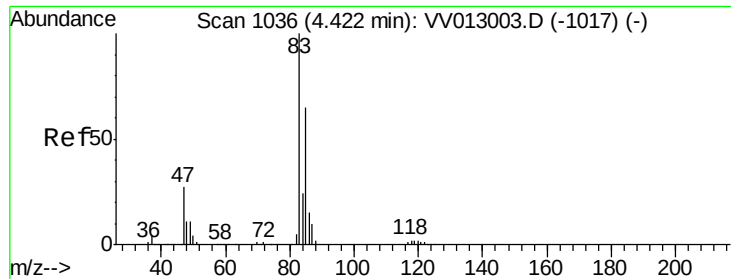
Bromochloromethane
Concen: 23.760 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 128 Resp: 136705
Ion Ratio Lower Upper
128 100
49 170.8 114.4 212.6
130 128.6 88.5 164.4
51 54.7 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

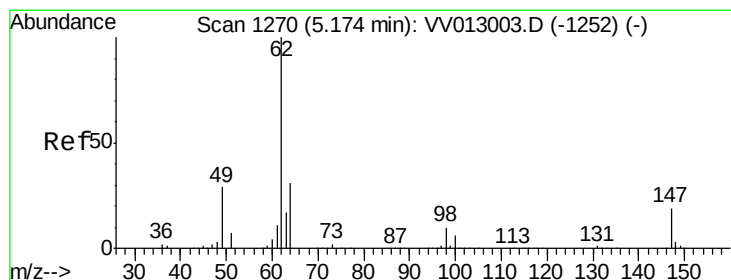
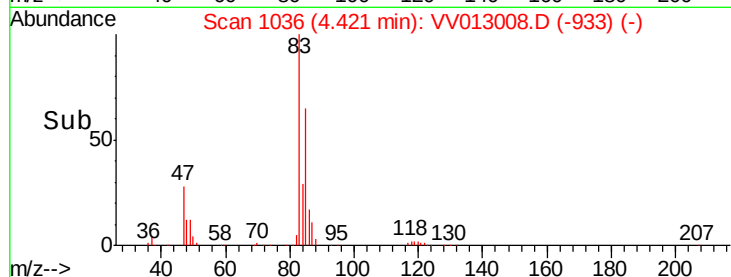
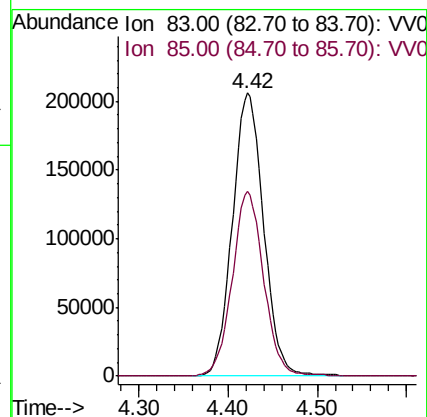
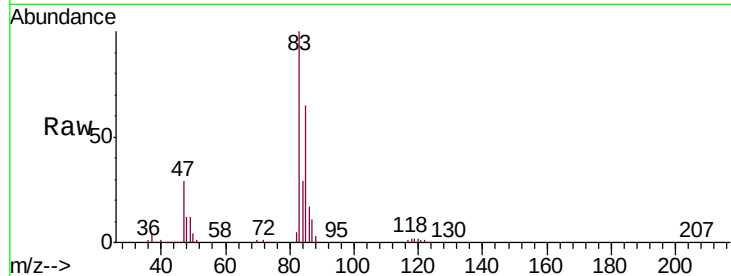




#25
Chloroform
Concen: 24.544 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

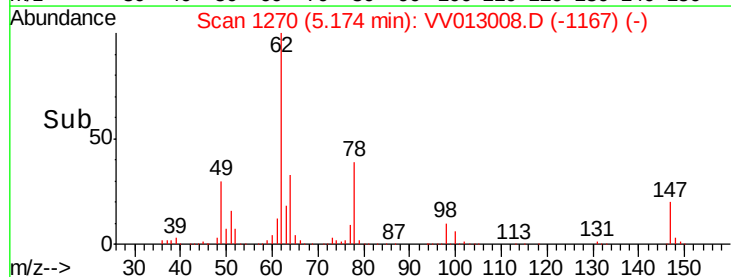
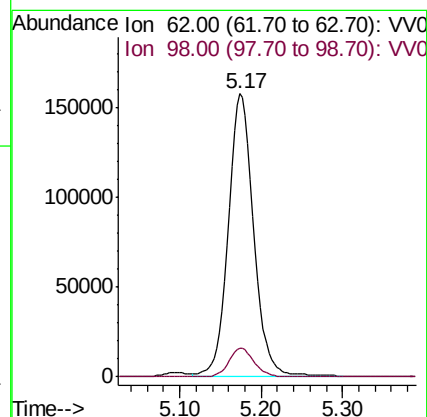
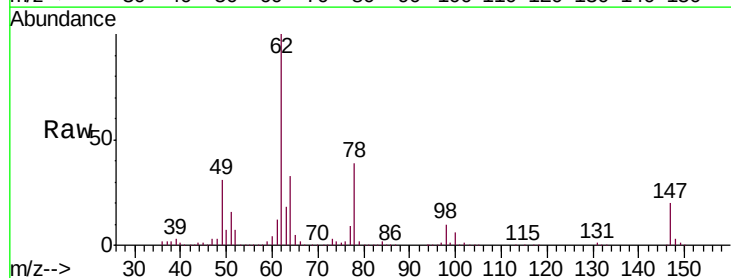
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

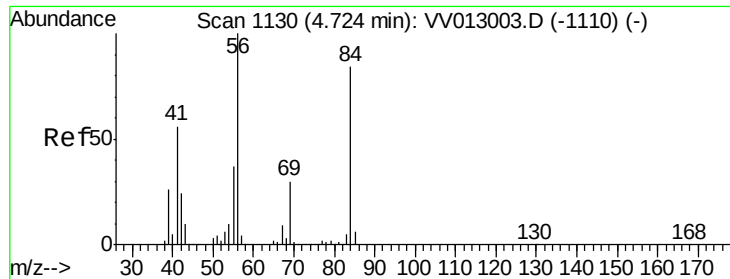
Tgt Ion: 83 Resp: 499808
Ion Ratio Lower Upper
83 100
85 65.6 45.8 85.0



#27
1,2-Dichloroethane
Concen: 24.047 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 62 Resp: 346105
Ion Ratio Lower Upper
62 100
98 10.2 8.2 12.4

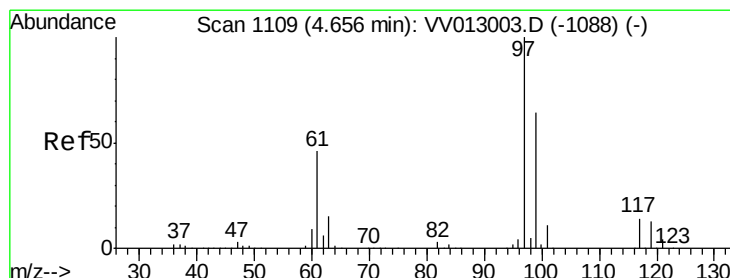
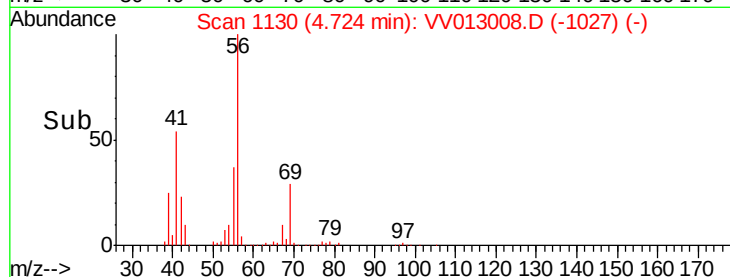
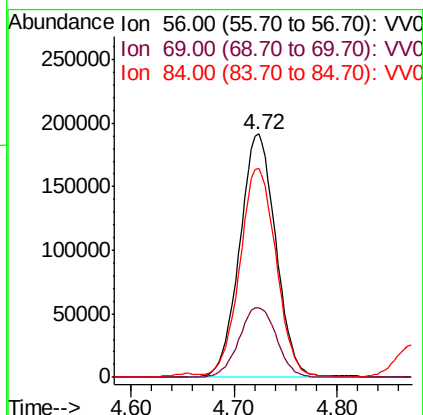
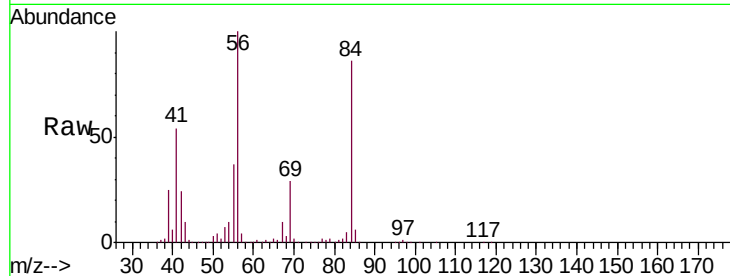




#30
Cyclohexane
Concen: 28.833 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

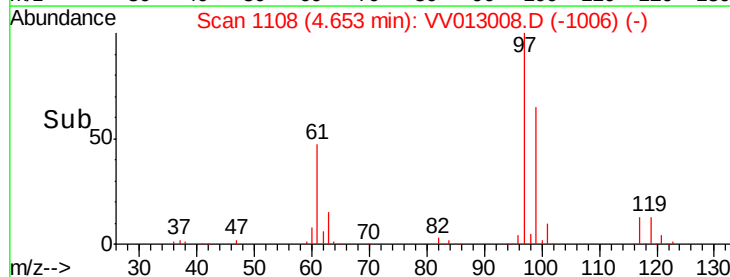
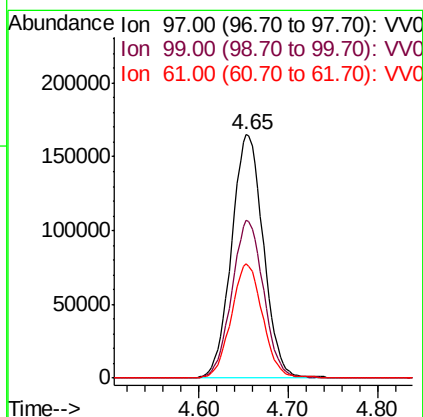
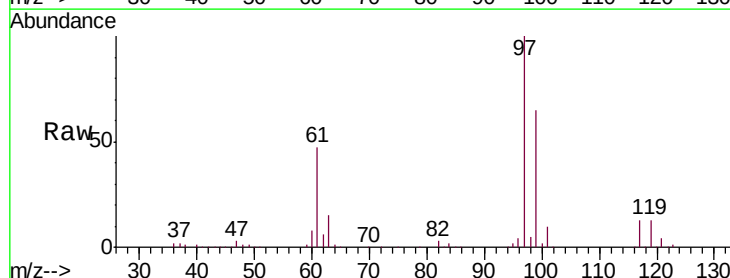
Instrument :
MSVOA_V
ClientSampleId :
VSTD02576

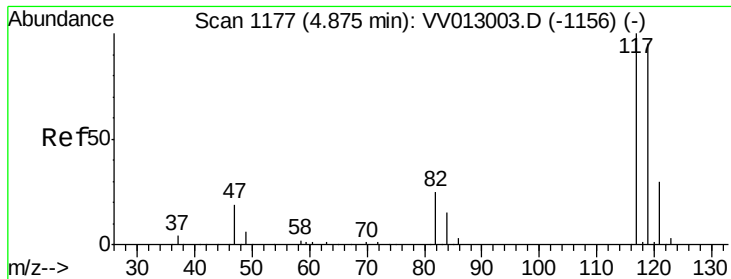
Tgt Ion: 56 Resp: 466326
Ion Ratio Lower Upper
56 100
69 29.8 23.8 35.8
84 86.1 68.4 102.6



#31
1,1,1-Trichloroethane
Concen: 27.451 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013008.D
Acq: 27 Sep 2019 14:54

Tgt Ion: 97 Resp: 409562
Ion Ratio Lower Upper
97 100
99 64.5 51.7 77.5
61 45.8 37.8 56.8





#32

Carbon tetrachloride

Concen: 27.456 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

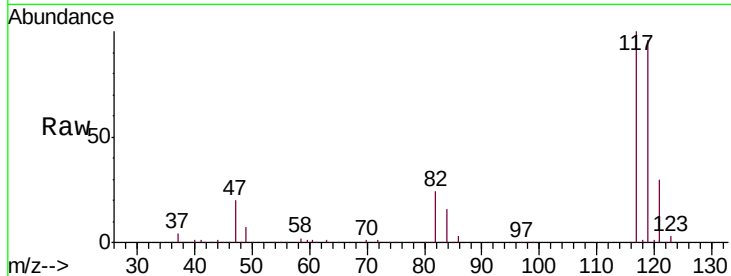
VSTD02576

Tgt Ion:117 Resp: 371438

Ion Ratio Lower Upper

117 100

119 95.5 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

150000

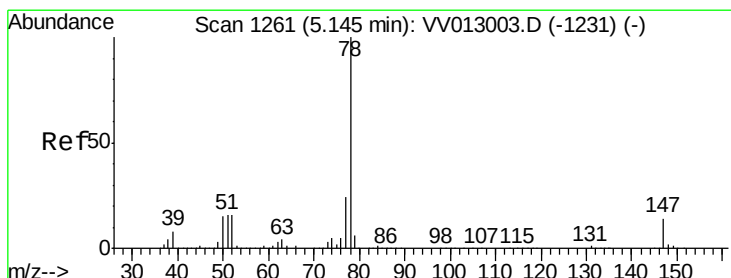
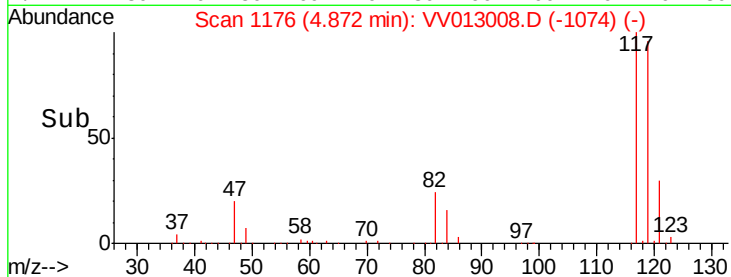
100000

50000

0

4.80 4.90

Time-->



#34

Benzene

Concen: 26.982 ug/L

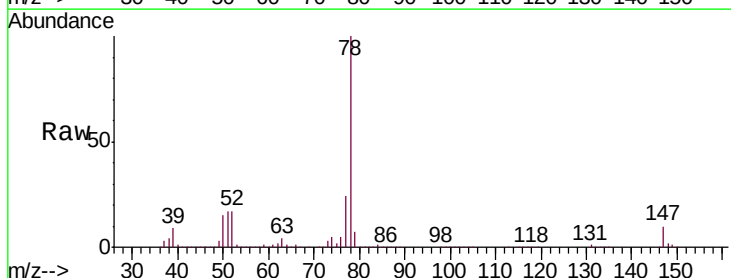
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Tgt Ion: 78 Resp: 1132255



Abundance Ion 78.00 (77.70 to 78.70): VV0

600000

500000

400000

300000

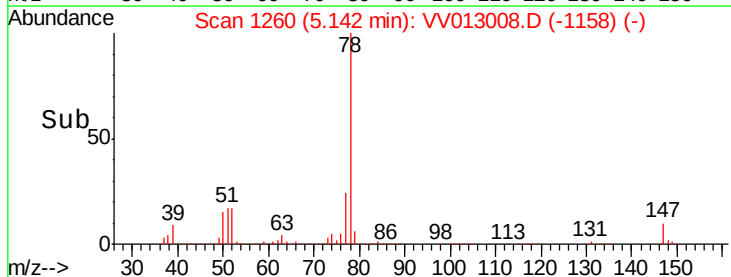
200000

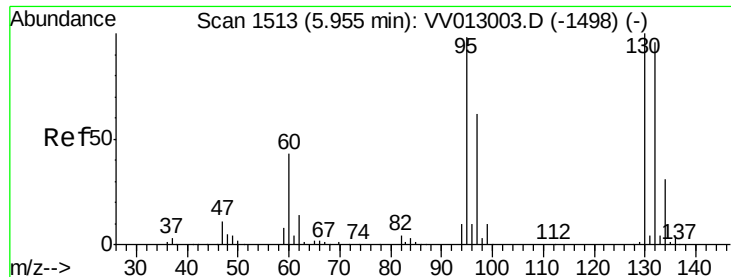
100000

0

5.00 5.10 5.20 5.30

Time-->





#35

Trichloroethene

Concen: 26.024 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

Tgt Ion: 95 Resp: 304207

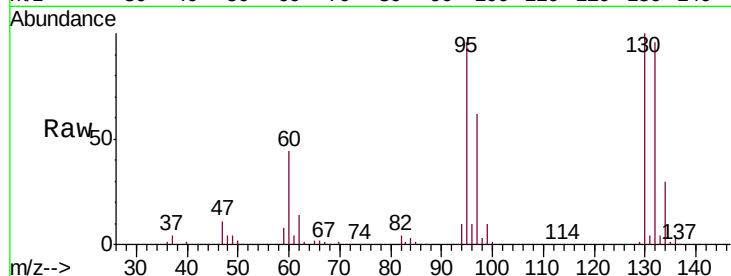
Ion Ratio Lower Upper

95 100

97 63.7 44.7 82.9

132 100.4 70.1 130.1

130 103.5 73.3 136.1

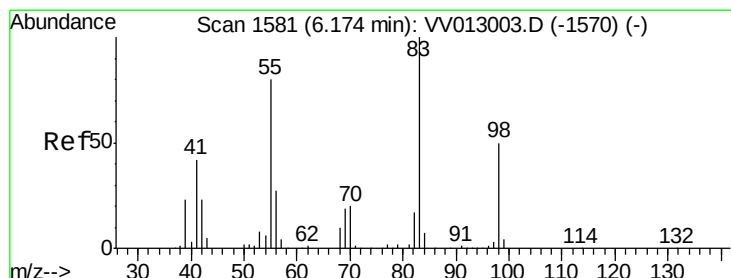
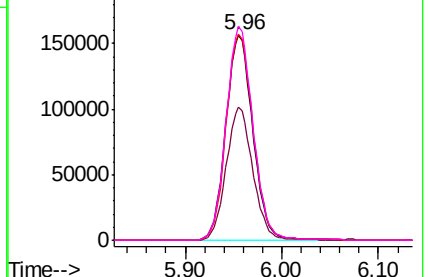
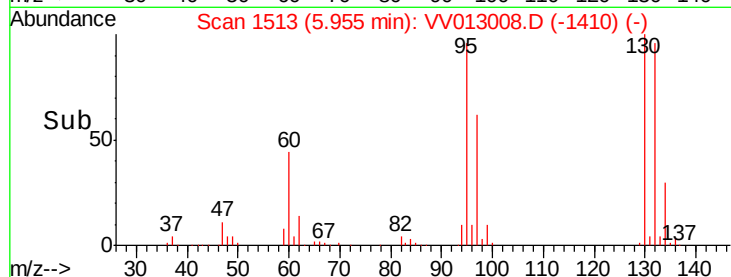


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 28.310 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

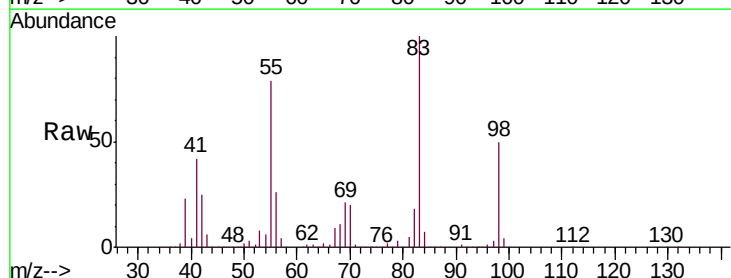
Tgt Ion: 83 Resp: 508024

Ion Ratio Lower Upper

83 100

55 78.1 61.8 92.8

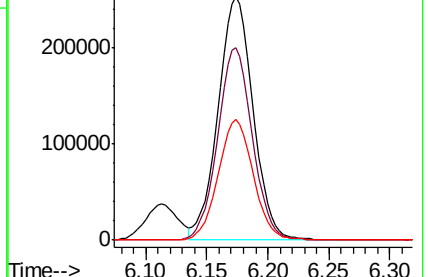
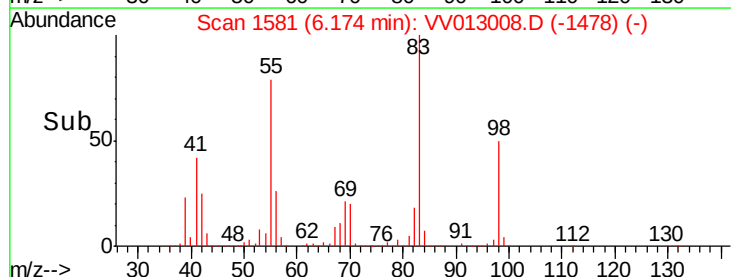
98 49.8 39.3 58.9

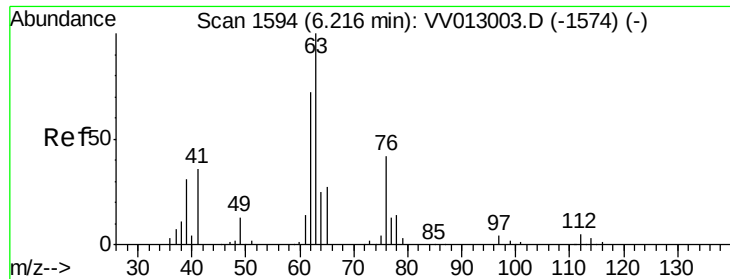


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 26.442 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

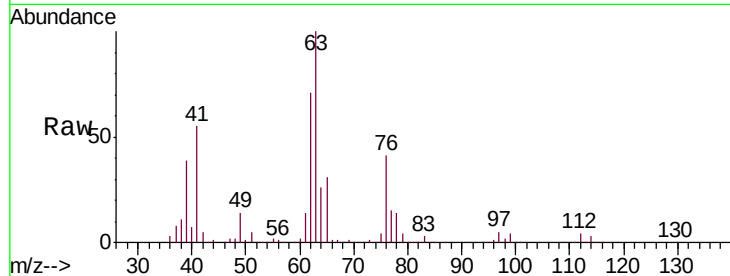
VSTD02576

Tgt Ion: 63 Resp: 288545

Ion Ratio Lower Upper

63 100

112 4.4 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV013008.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV013008.D (-1574) (-)

6.22

150000

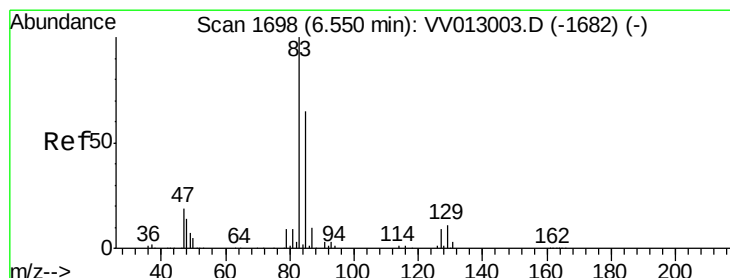
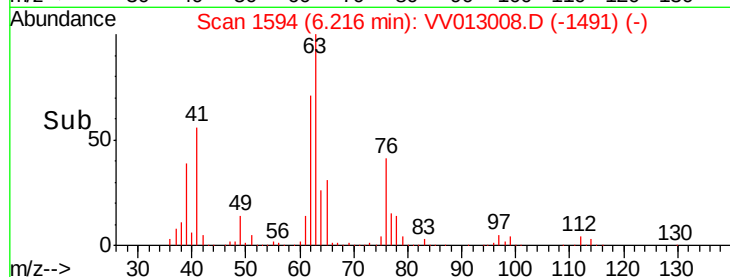
100000

50000

0

6.10 6.20 6.30

Time-->



#41

Bromodichloromethane

Concen: 25.558 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

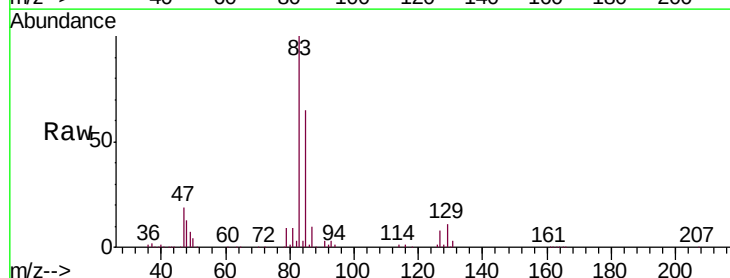
Tgt Ion: 83 Resp: 357226

Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

127 8.5 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV013008.D (-1682) (-)

Ion 85.00 (84.70 to 85.70): VV013008.D (-1682) (-)

Ion 127.00 (126.70 to 127.70): VV013008.D (-1682) (-)

6.55

250000

200000

150000

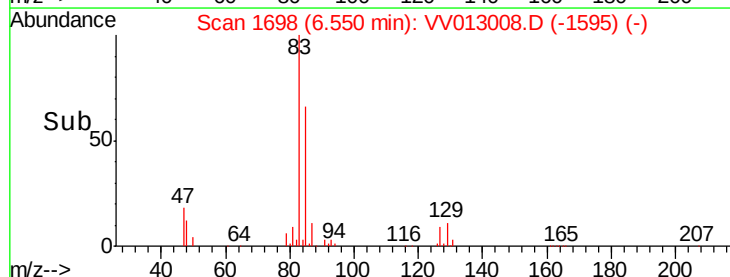
100000

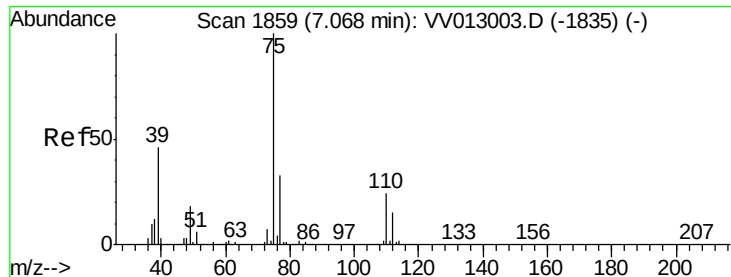
50000

0

6.50 6.55 6.60

Time-->





#42

cis-1,3-Dichloropropene

Concen: 26.868 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

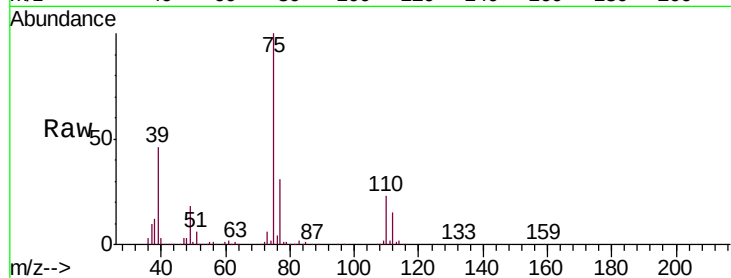
VSTD02576

Tgt Ion: 75 Resp: 430815

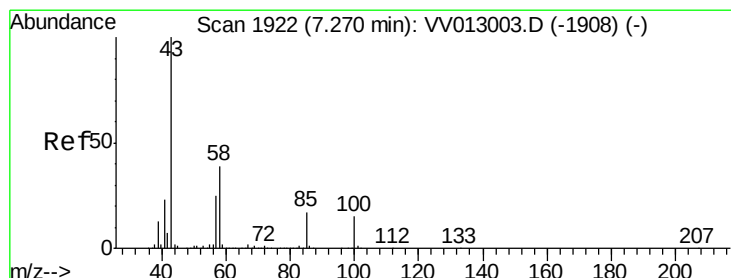
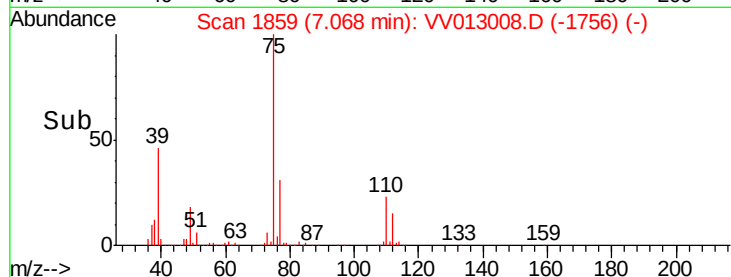
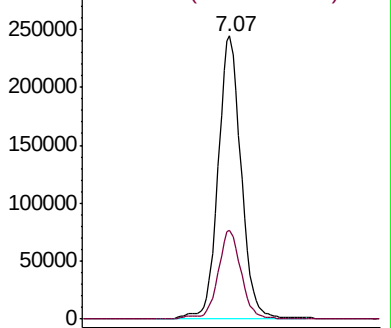
Ion Ratio Lower Upper

75 100

77 31.2 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV013008.D (-1835) (-)



#43

4-Methyl-2-pentanone

Concen: 48.540 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

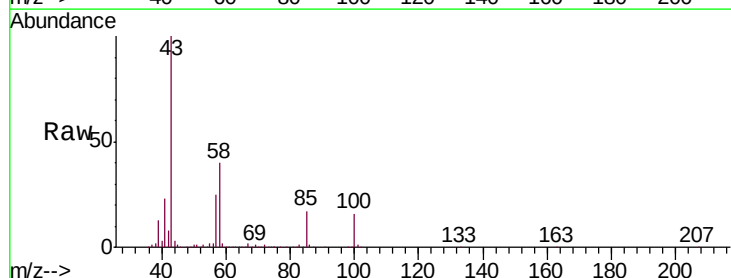
Tgt Ion: 43 Resp: 435182

Ion Ratio Lower Upper

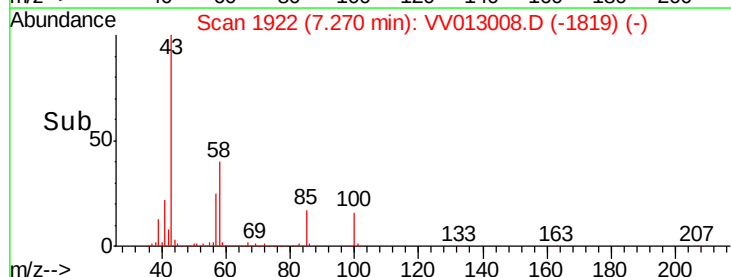
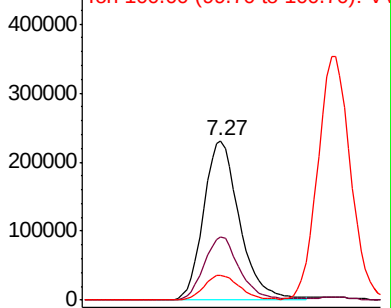
43 100

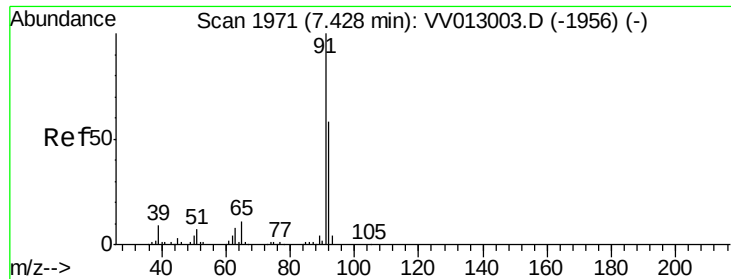
58 39.2 31.2 46.8

100 15.5 12.2 18.2



Abundance Ion 43.00 (42.70 to 43.70): VV013008.D (-1908) (-)





#44

Toluene

Concen: 27.857 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

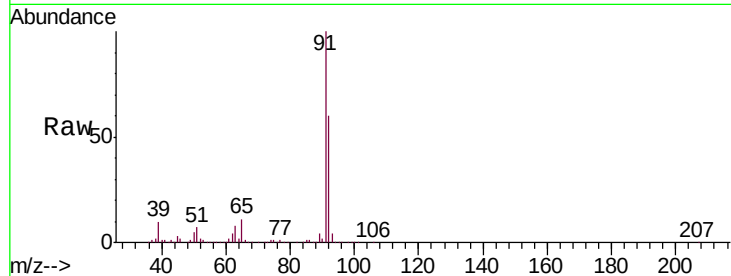
VSTD02576

Tgt Ion: 91 Resp: 1232879

Ion Ratio Lower Upper

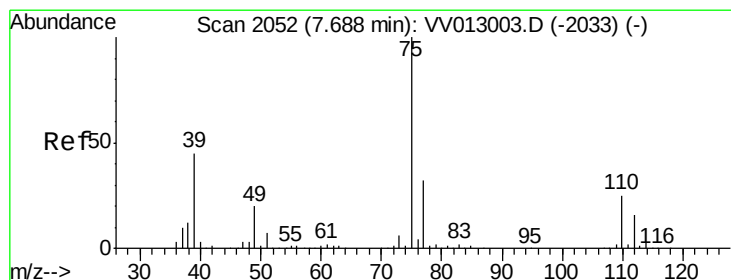
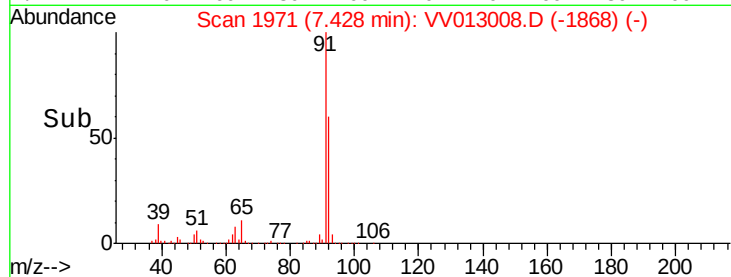
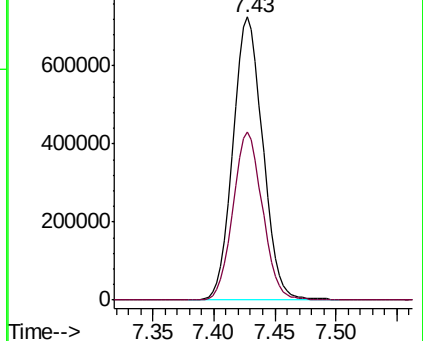
91 100

92 59.5 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 25.960 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013008.D

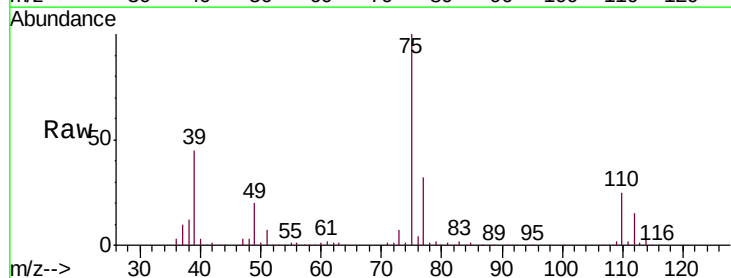
Acq: 27 Sep 2019 14:54

Tgt Ion: 75 Resp: 350335

Ion Ratio Lower Upper

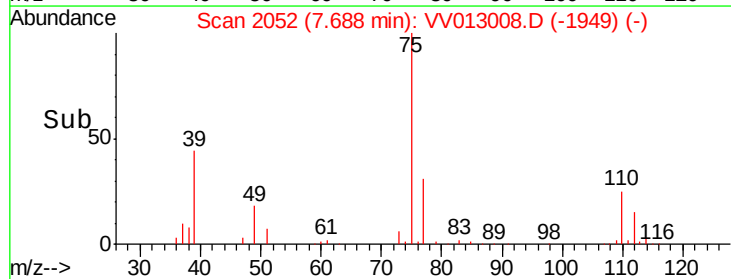
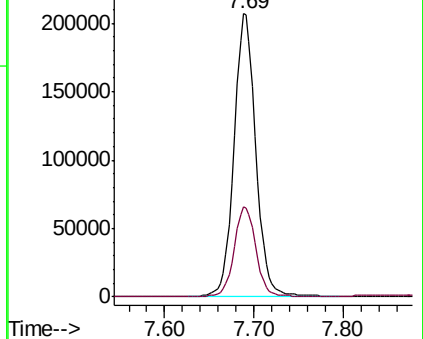
75 100

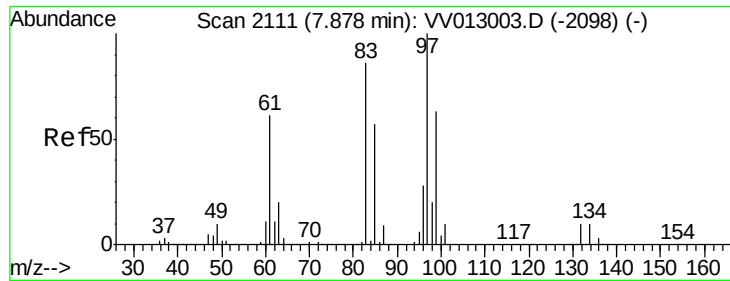
77 31.7 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

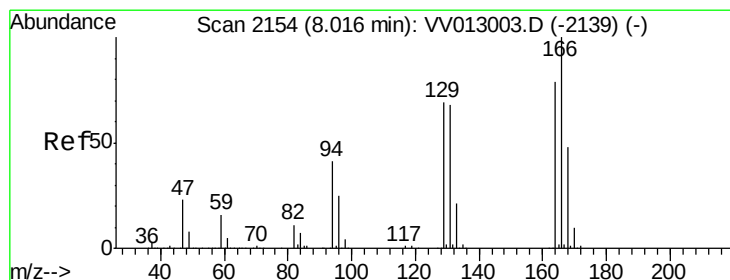
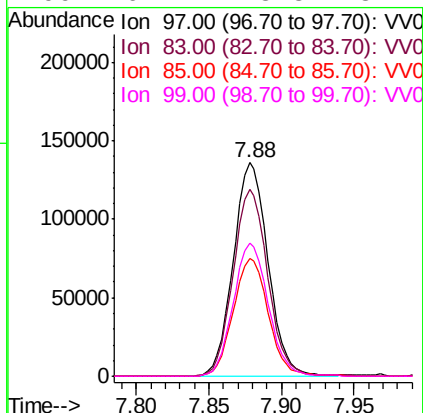
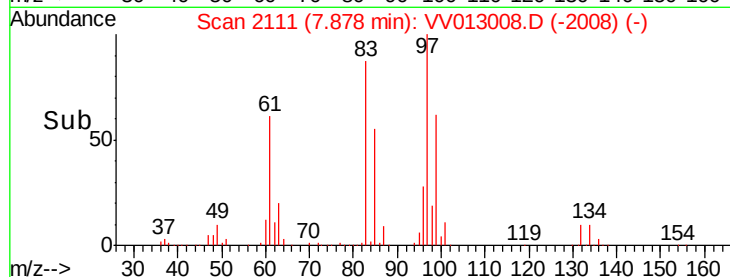
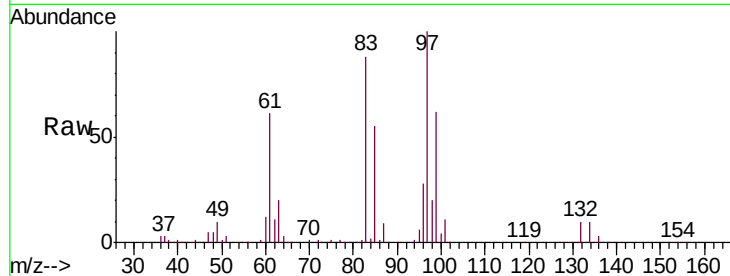




#46
 1,1,2-Trichloroethane
 Concen: 24.442 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

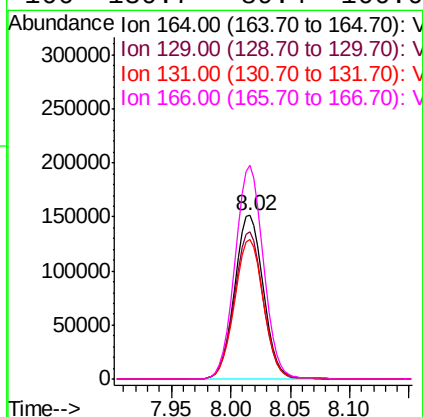
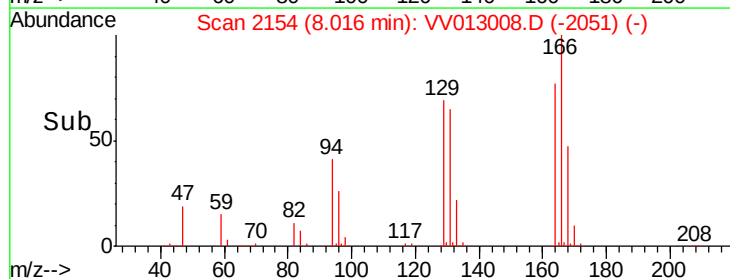
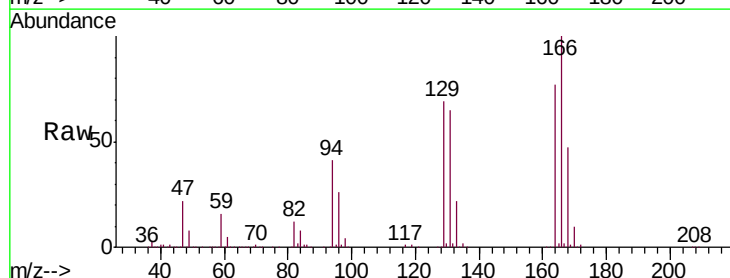
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

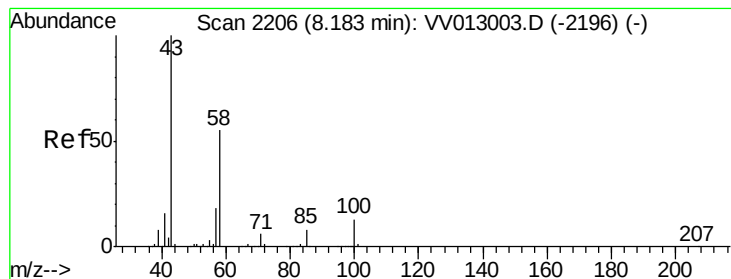
Tgt Ion:	97	Resp:	226432
Ion	Ratio	Lower	Upper
97	100		
83	87.5	58.9	109.5
85	55.0	38.4	71.2
99	62.4	43.8	81.4



#47
 Tetrachloroethene
 Concen: 26.881 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

Tgt Ion:	164	Resp:	255393
Ion	Ratio	Lower	Upper
164	100		
129	90.4	62.8	116.6
131	85.1	60.2	111.8
166	130.7	89.4	166.0





#49

2-Hexanone

Concen: 49.596 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

Tgt Ion: 43 Resp: 335172

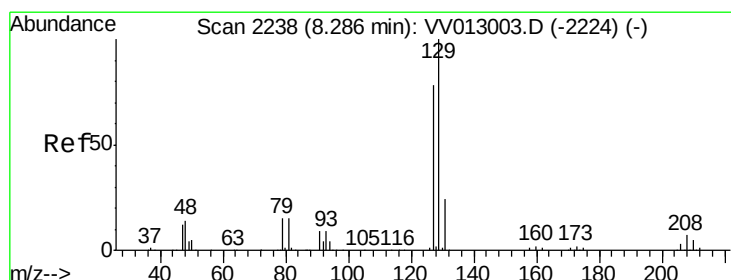
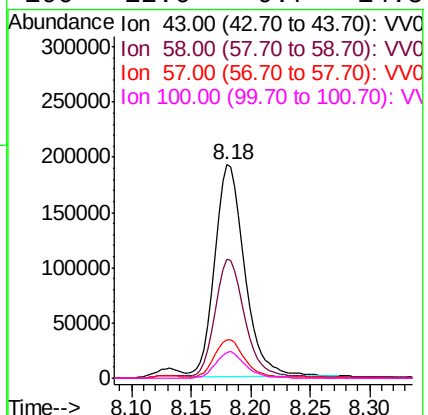
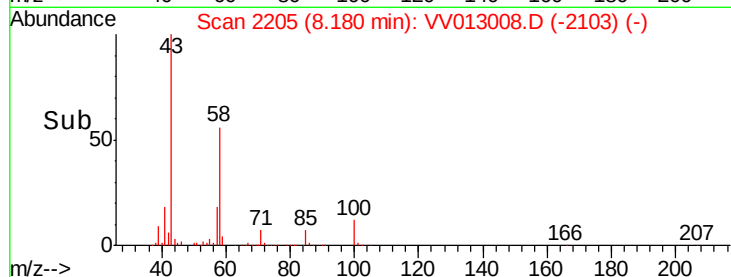
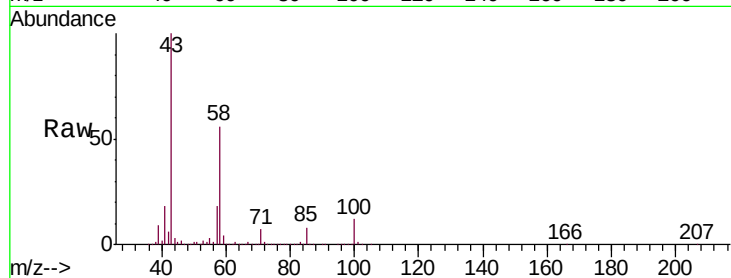
Ion Ratio Lower Upper

43 100

58 56.1 46.5 69.7

57 18.6 15.5 23.3

100 12.6 9.7 14.5



#50

Dibromochloromethane

Concen: 24.822 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VV013008.D

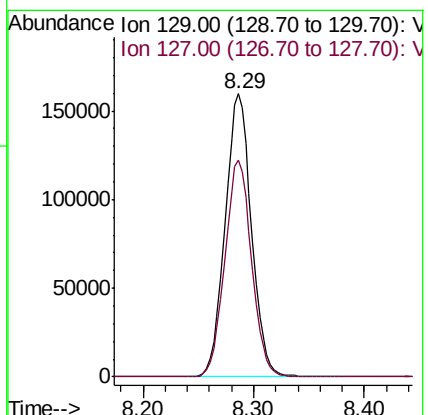
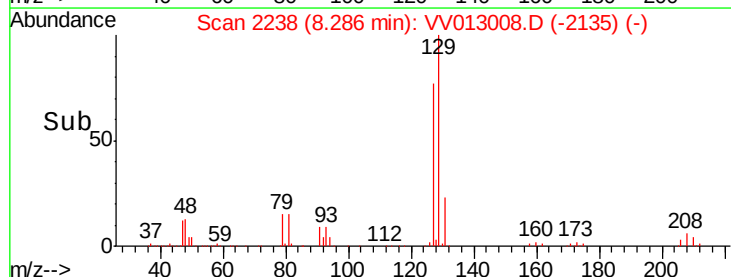
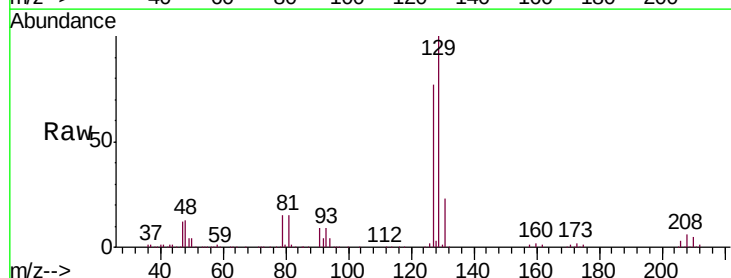
Acq: 27 Sep 2019 14:54

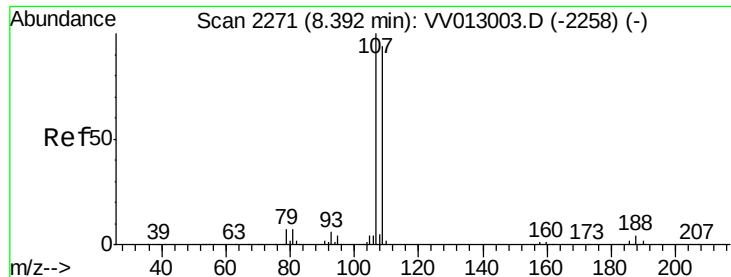
Tgt Ion: 129 Resp: 264296

Ion Ratio Lower Upper

129 100

127 76.6 53.7 99.7





#51

1,2-Dibromoethane

Concen: 24.788 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

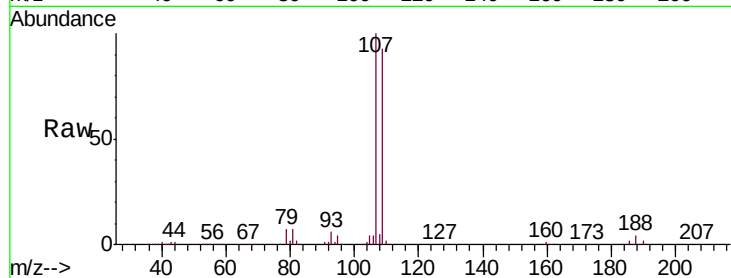
Tgt Ion:107 Resp: 225039

Ion Ratio Lower Upper

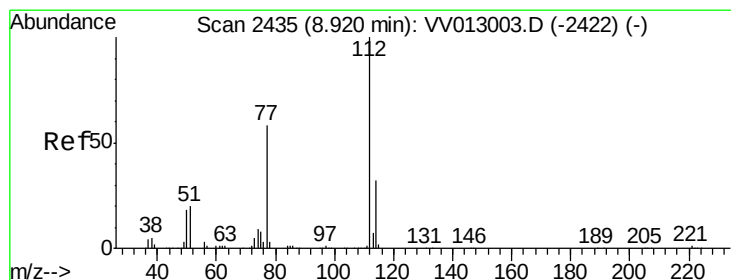
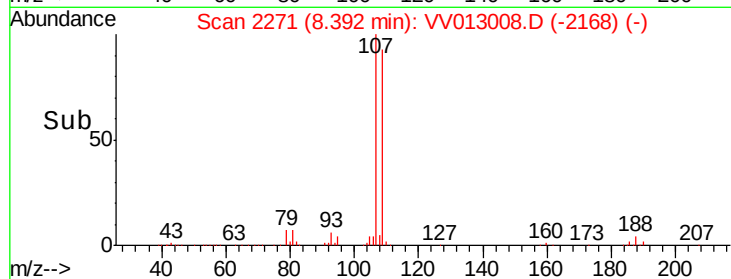
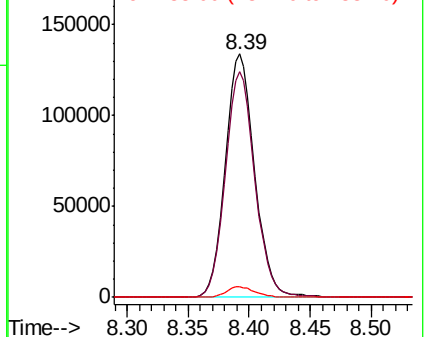
107 100

109 92.7 66.1 122.8

188 4.4 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: 25.990 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

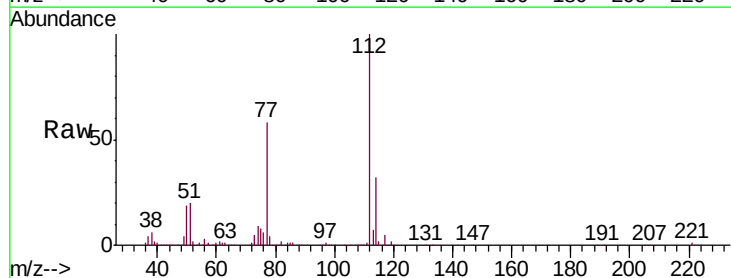
Tgt Ion:112 Resp: 793779

Ion Ratio Lower Upper

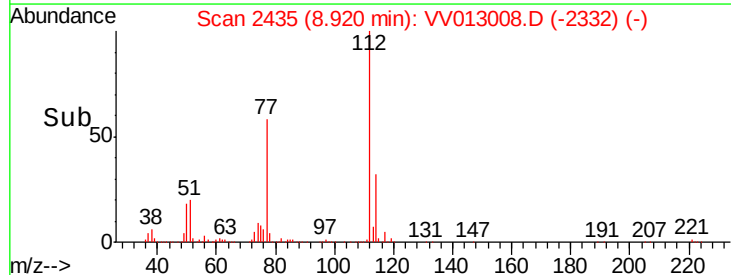
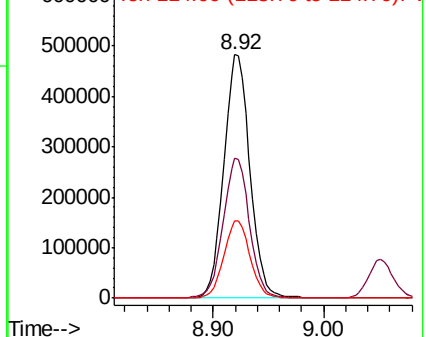
112 100

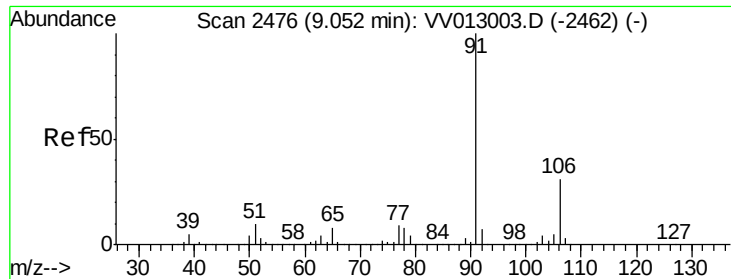
77 57.6 46.3 69.5

114 31.8 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: 28.199 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

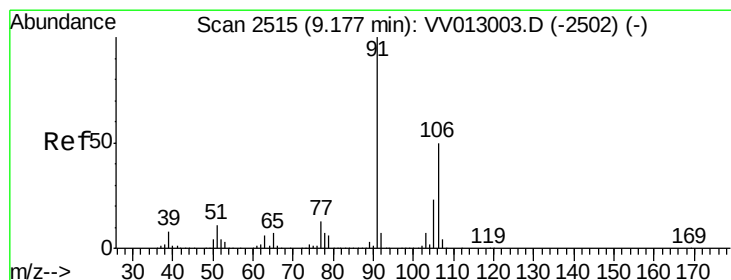
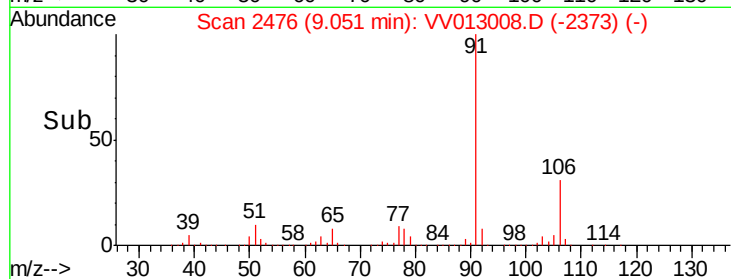
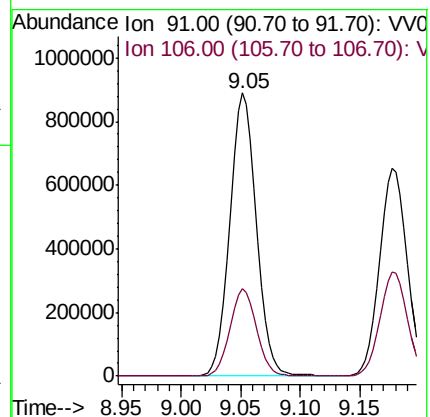
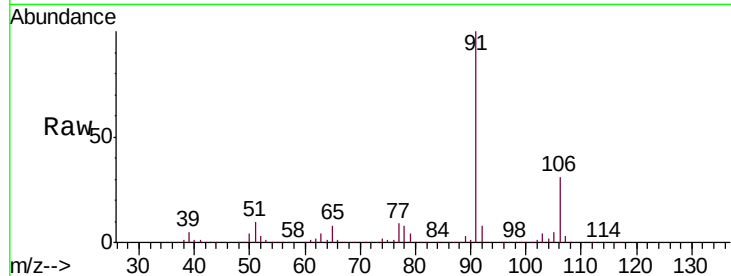
VSTD02576

Tgt Ion: 91 Resp: 1374122

Ion Ratio Lower Upper

91 100

106 30.8 21.8 40.4



#54

m,p-Xylene

Concen: 28.554 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013008.D

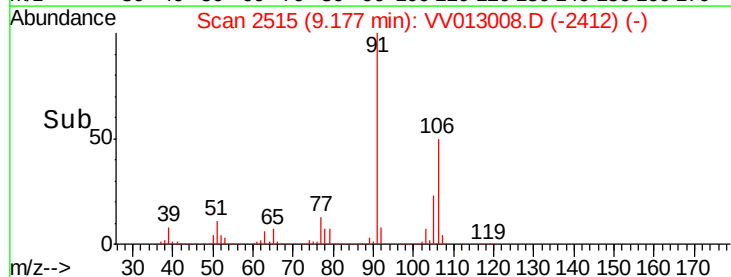
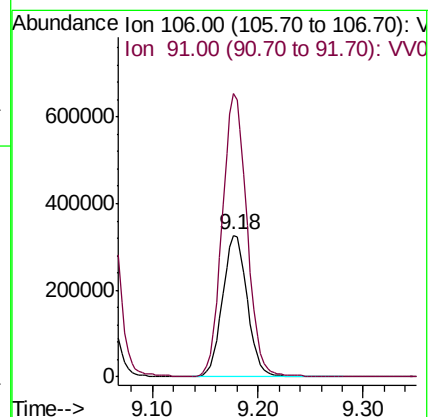
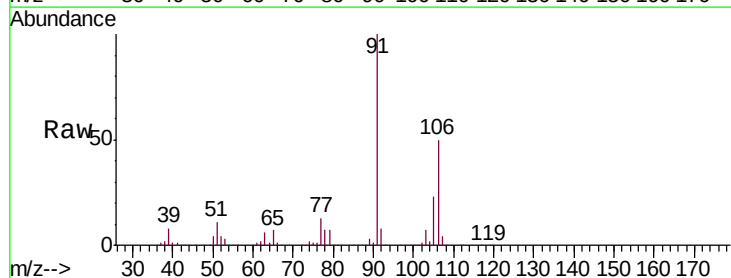
Acq: 27 Sep 2019 14:54

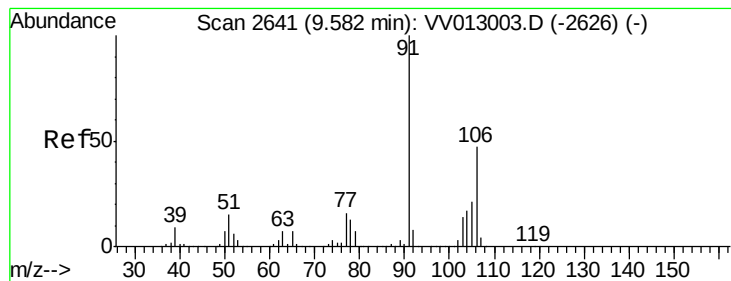
Tgt Ion: 106 Resp: 528971

Ion Ratio Lower Upper

106 100

91 200.1 140.1 260.3





#55

o-xylene

Concen: 28.435 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

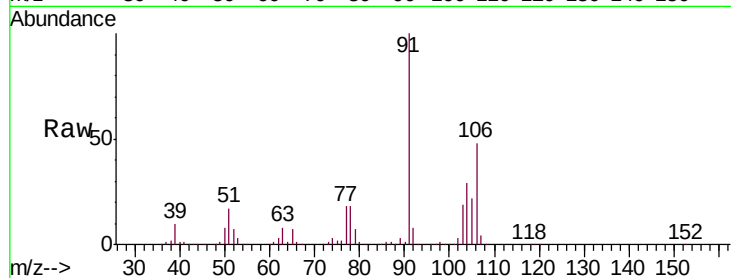
VSTD02576

Tgt Ion:106 Resp: 501899

Ion Ratio Lower Upper

106 100

91 209.8 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

800000

600000

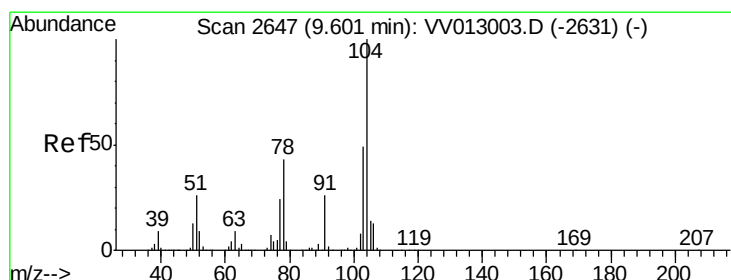
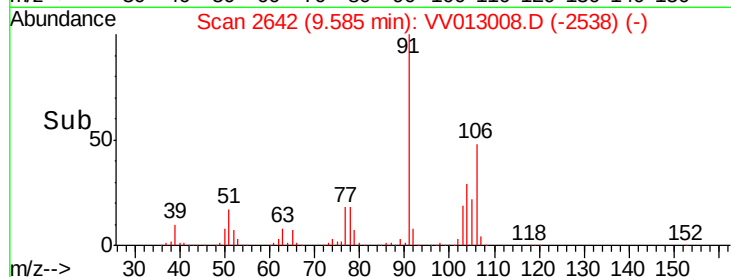
400000

200000

0

9.50 9.55 9.60 9.65 9.70

Time-->



#56

Styrene

Concen: 28.196 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013008.D

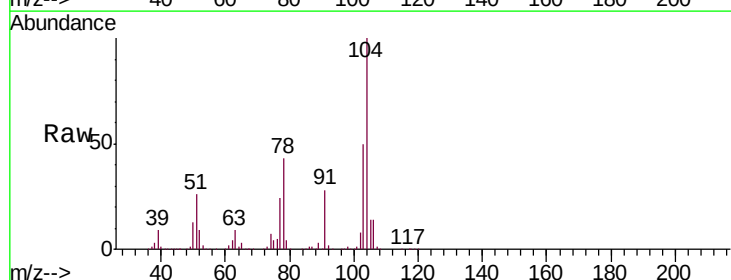
Acq: 27 Sep 2019 14:54

Tgt Ion:104 Resp: 875689

Ion Ratio Lower Upper

104 100

78 43.5 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

600000

500000

400000

300000

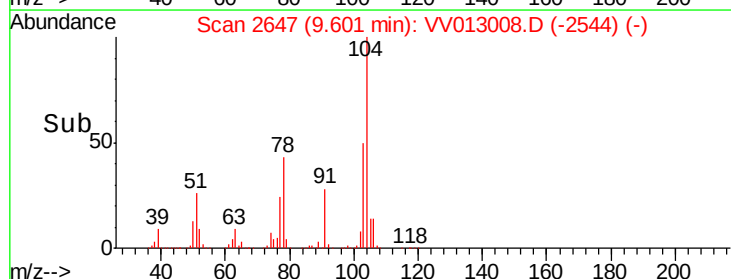
200000

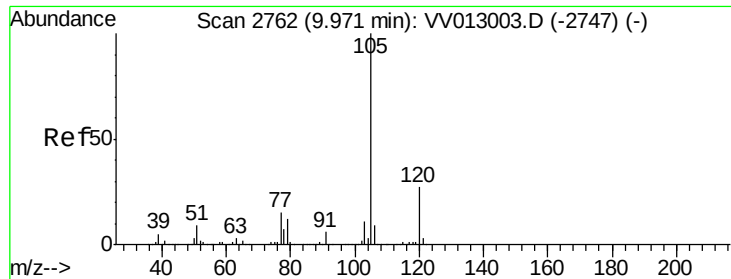
100000

0

9.50 9.60 9.70

Time-->





#57

Isopropylbenzene

Concen: 29.403 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

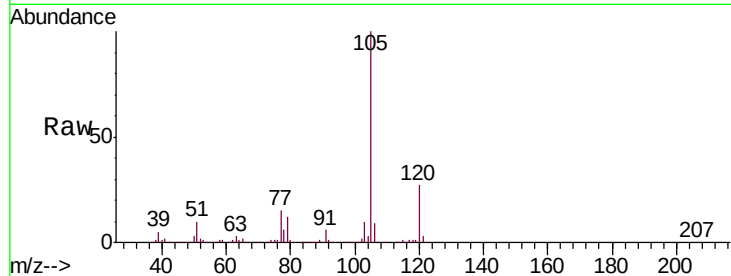
Tgt Ion:105 Resp: 1363933

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.0

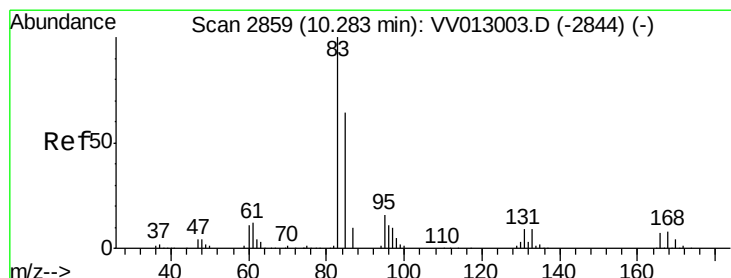
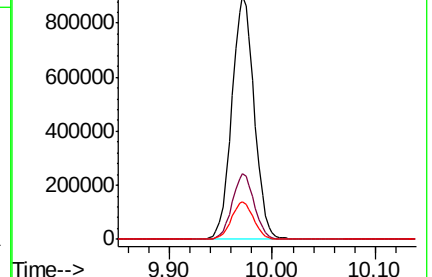
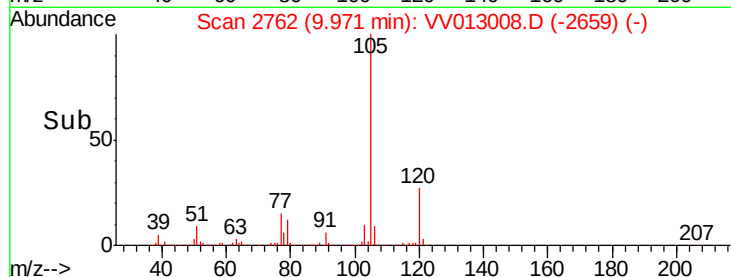
77 15.4 12.2 18.4



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: 24.737 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

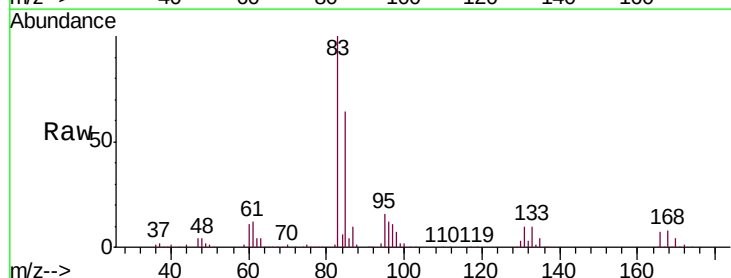
Tgt Ion: 83 Resp: 283472

Ion Ratio Lower Upper

83 100

85 64.1 45.4 84.2

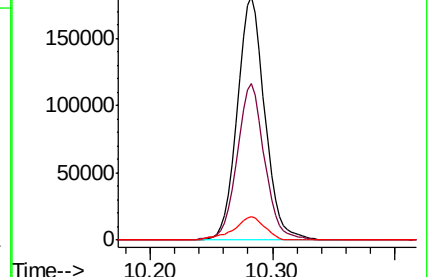
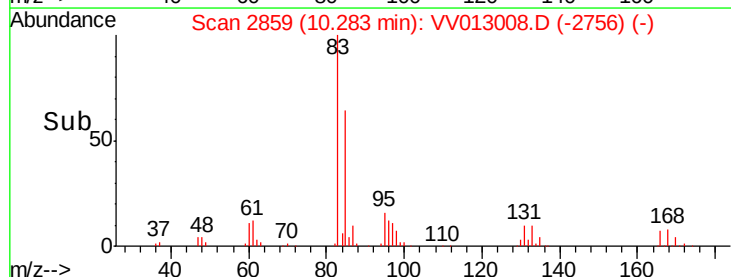
131 9.8 8.2 12.2

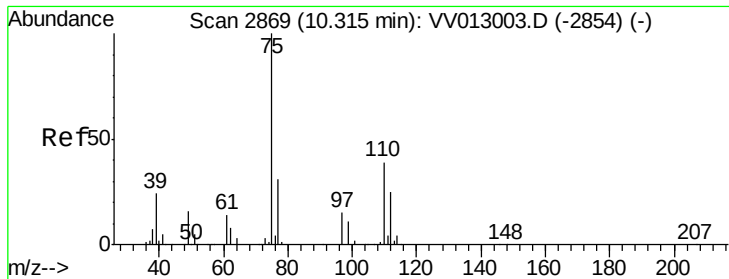


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.048 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

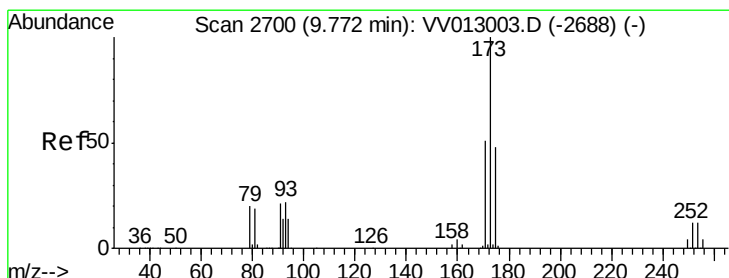
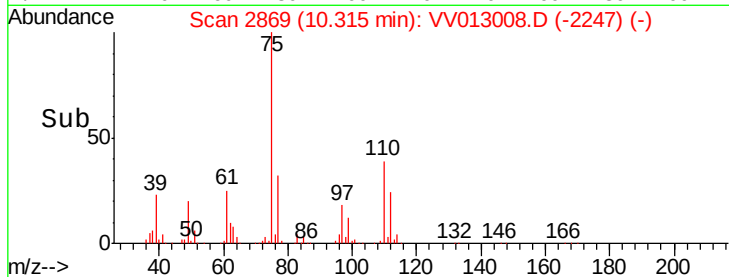
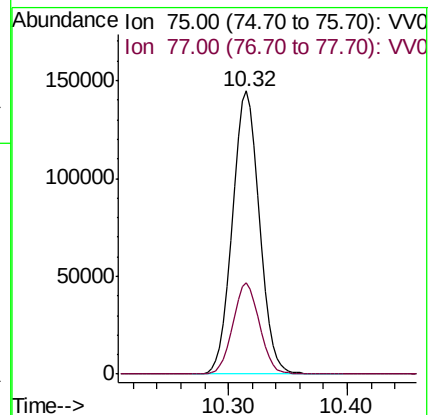
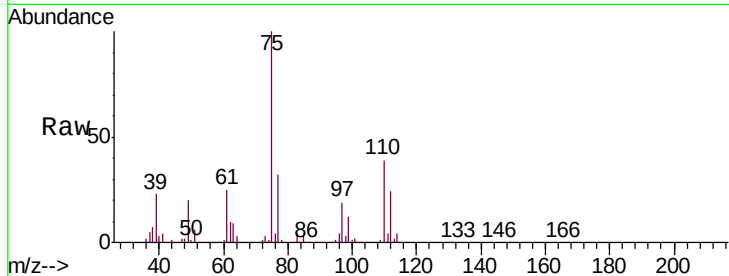
VSTD02576

Tgt Ion: 75 Resp: 227455

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.0



#62

Bromoform

Concen: 24.166 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

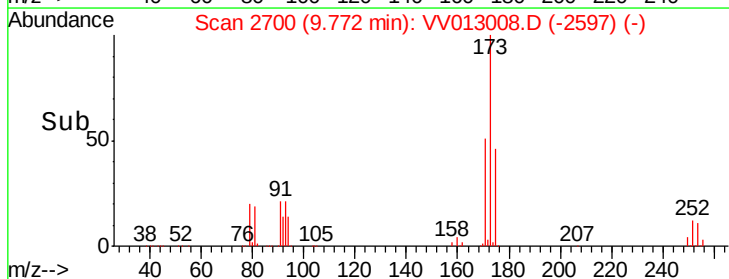
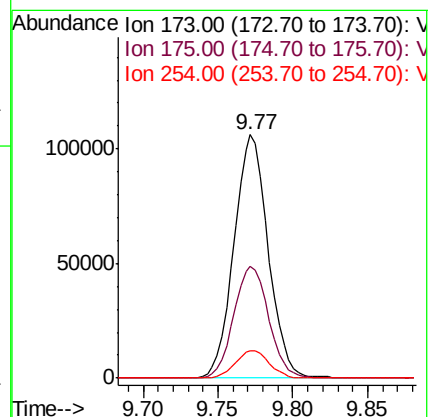
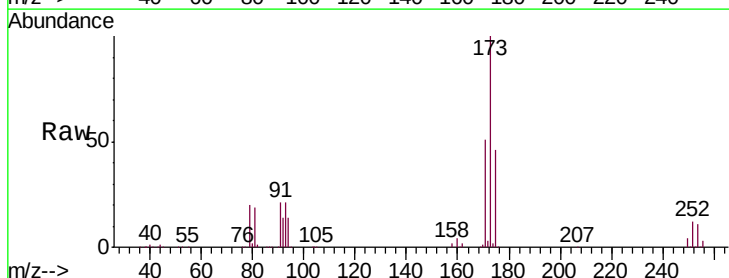
Tgt Ion: 173 Resp: 168505

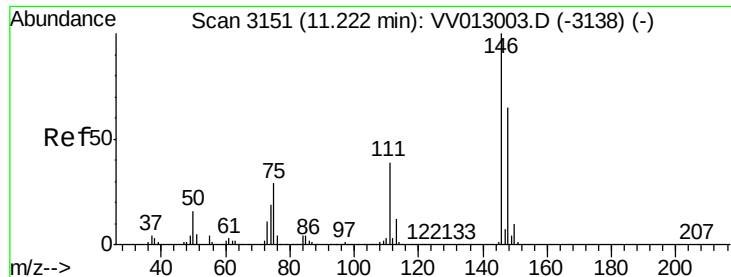
Ion Ratio Lower Upper

173 100

175 47.2 39.5 59.3

254 11.1 9.1 13.7

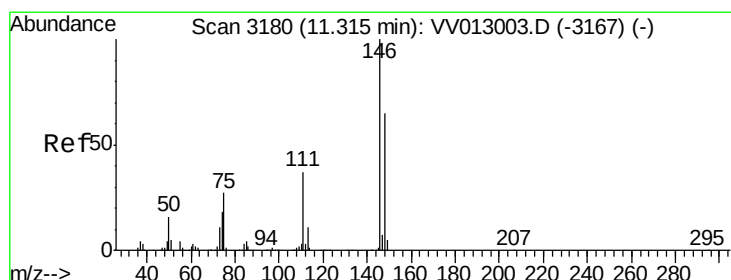
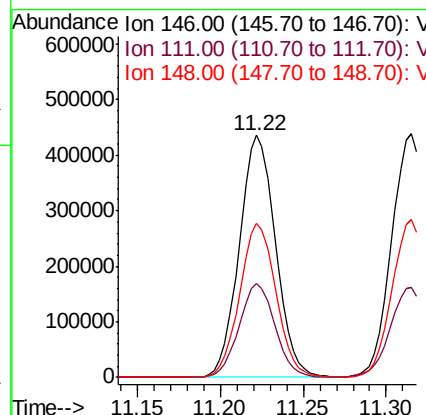
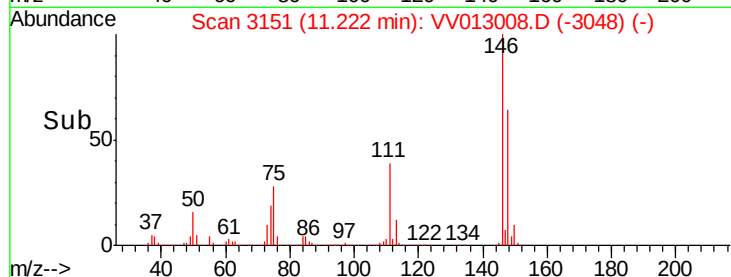
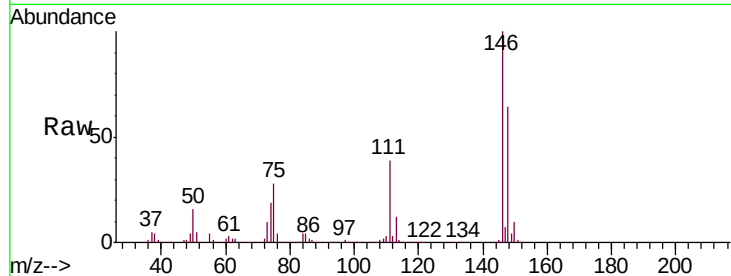




#63
 1,3-Dichlorobenzene
 Concen: 26.254 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

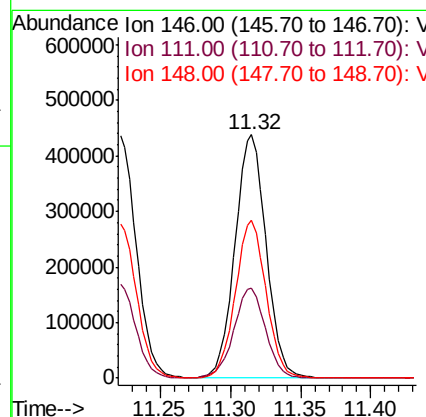
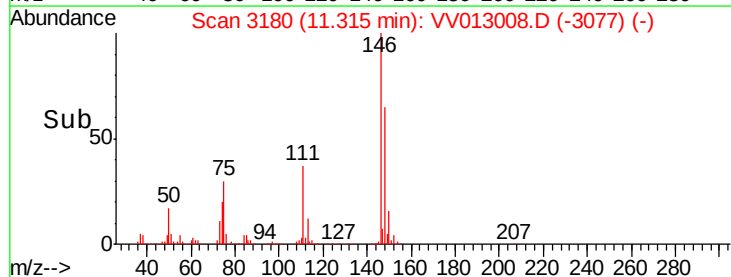
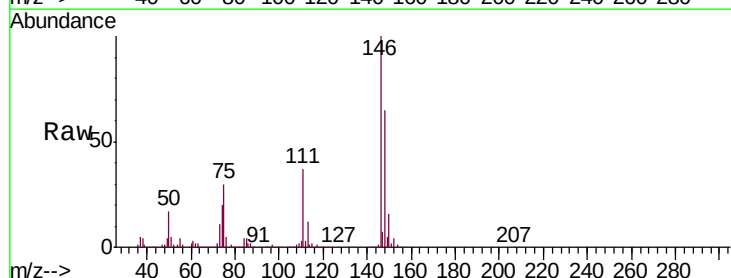
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

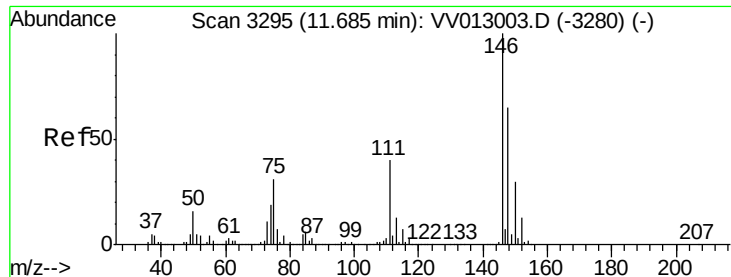
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	26.7	49.7
148	63.6	43.9	81.5



#64
 1,4-Dichlorobenzene
 Concen: 25.411 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	25.5	47.3
148	64.9	45.1	83.9

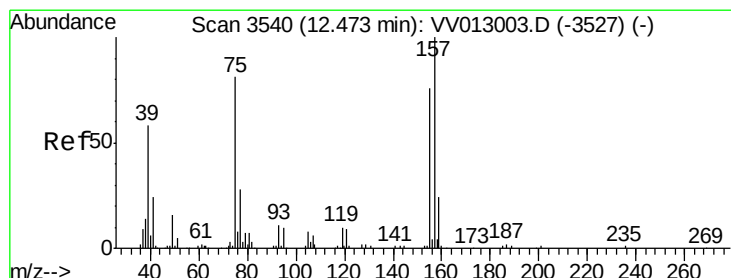
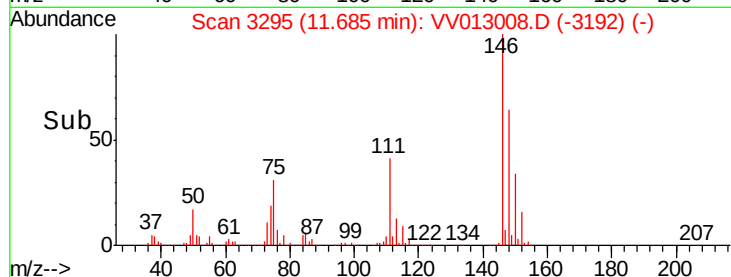
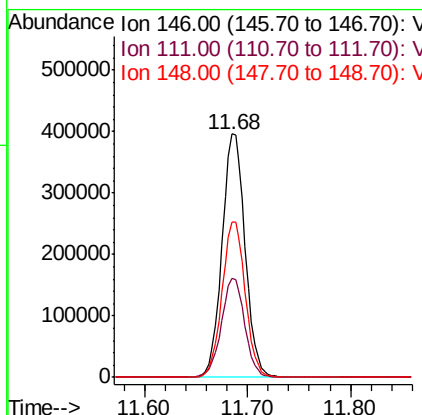
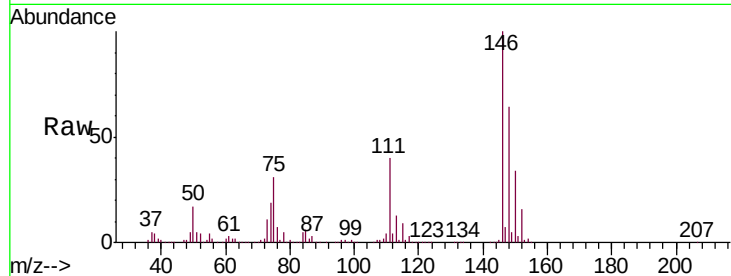




#65
 1,2-Dichlorobenzene
 Concen: 25.553 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

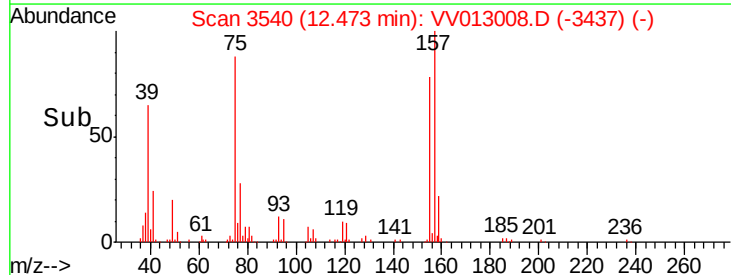
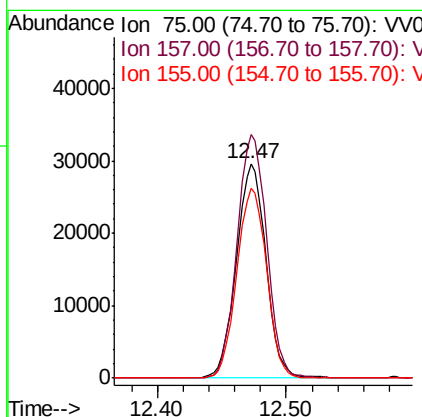
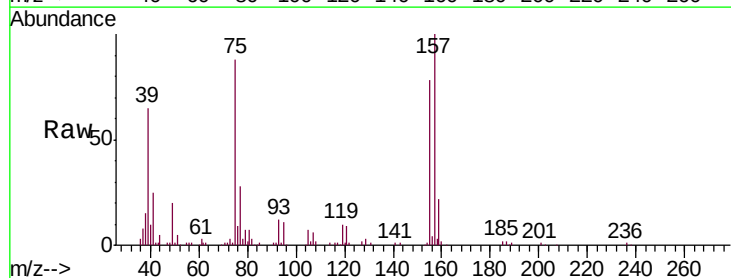
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

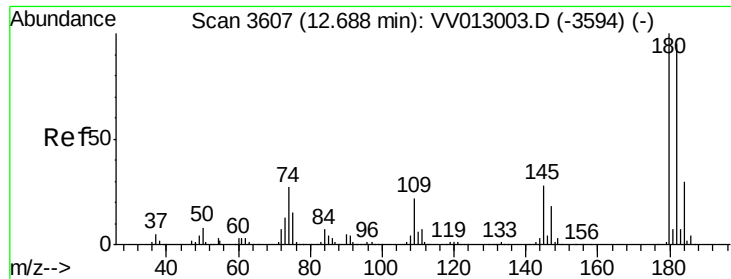
Tgt Ion: 146 Resp: 616498
 Ion Ratio Lower Upper
 146 100
 111 40.5 31.9 47.9
 148 63.8 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.016 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

Tgt Ion: 75 Resp: 47092
 Ion Ratio Lower Upper
 75 100
 157 113.5 91.7 137.5
 155 88.6 70.8 106.2

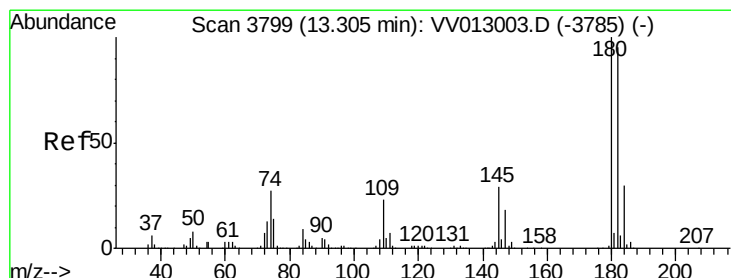
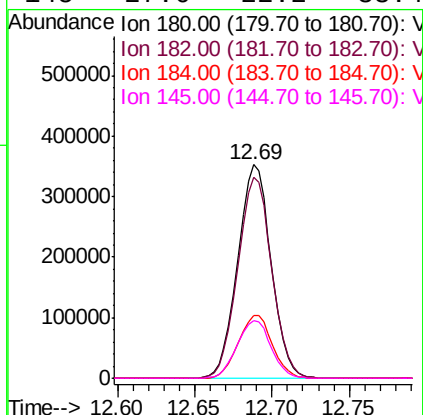
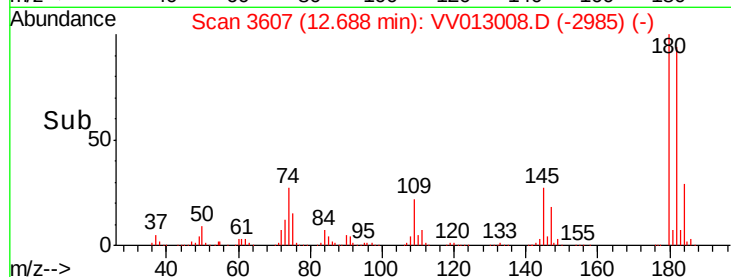
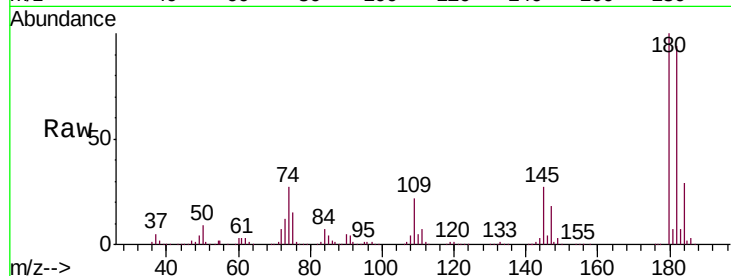




#67
 1,3,5-Trichlorobenzene
 Concen: 26.777 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

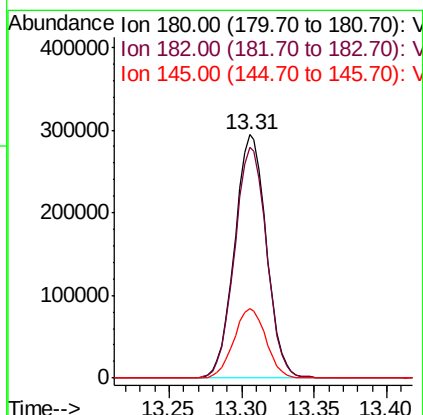
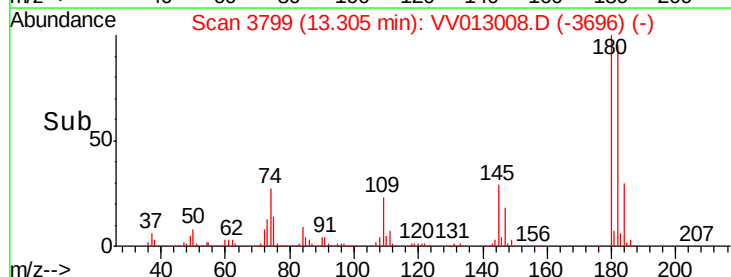
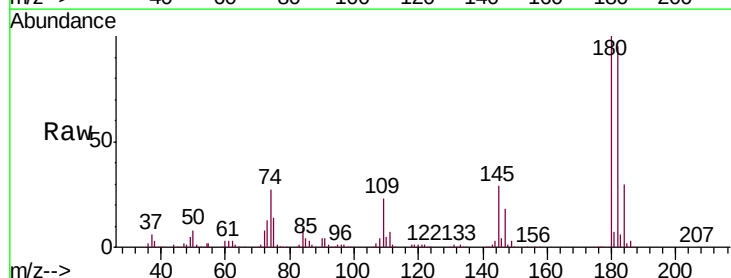
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02576

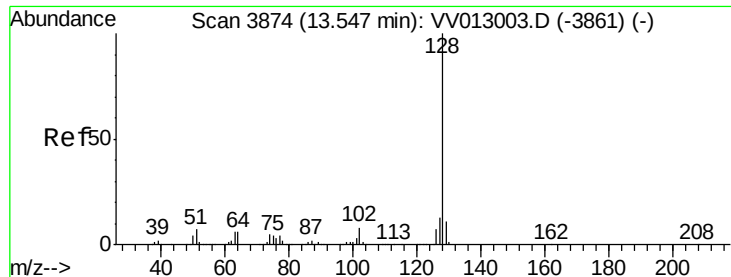
Tgt Ion:	180	Resp:	529804
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
184	30.0	24.6	37.0
145	27.6	22.2	33.4



#68
 1,2,4-trichlorobenzene
 Concen: 25.937 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013008.D
 Acq: 27 Sep 2019 14:54

Tgt Ion:	180	Resp:	448753
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.8	115.2
145	28.9	22.6	34.0





#69

Naphthalene

Concen: 25.029 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02576

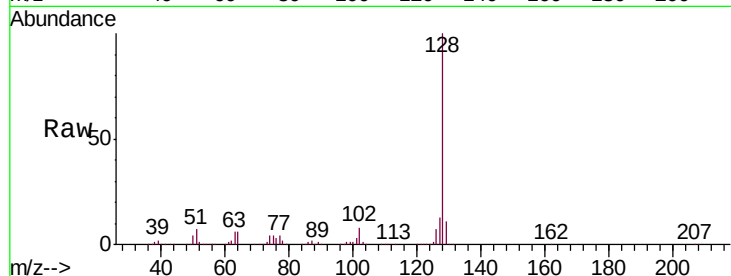
Tgt Ion:128 Resp: 870966

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

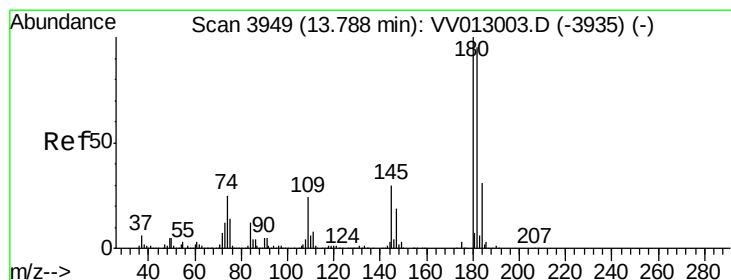
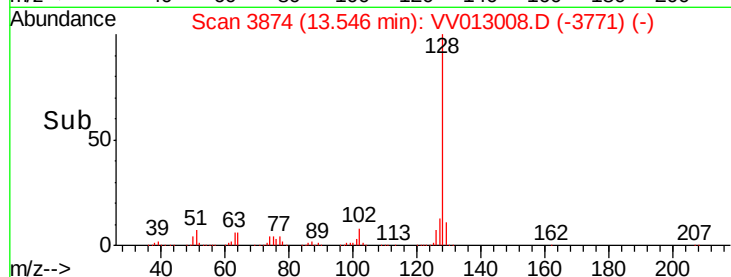
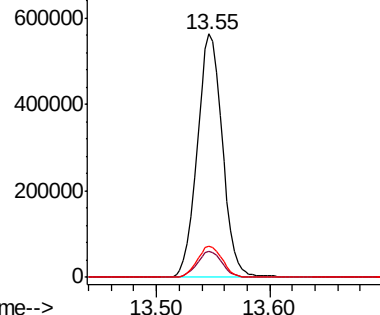
127 12.9 10.2 15.2



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: 25.786 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013008.D

Acq: 27 Sep 2019 14:54

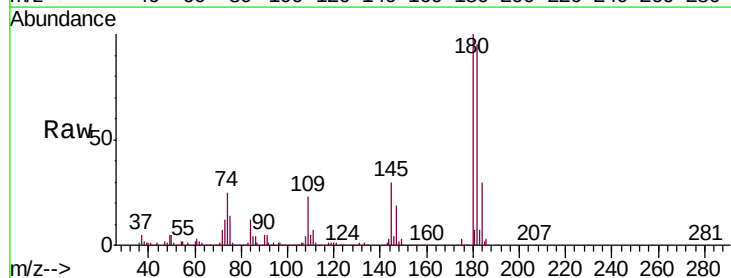
Tgt Ion:180 Resp: 428947

Ion Ratio Lower Upper

180 100

182 96.1 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

