

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\
 Data File : VV010207.D
 Acq On : 09 Apr 2019 06:46
 Operator : SY/MD
 Sample : VSTDCCC025EC
 Misc : 5.00G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Quant Time: Apr 09 07:40:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 09 07:35:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	227399	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	201776	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	100486	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	65779	21.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.44%
7) Chloroethane-d5	1.56	69	77754	20.56	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.24%
10) 1,1-Dichloroethene-d2	2.12	63	173061	22.54	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.16%
20) 2-Butanone-d5	3.93	46	59441	68.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.24%#
24) Chloroform-d	4.40	84	143643	25.07	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.28%
26) 1,2-Dichloroethane-d4	5.08	65	85128	26.56	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.24%
29) Benzene-d6	5.09	84	284156	27.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.64%
33) 1,2-Dichloropropane-d6	6.11	67	84154	27.25	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.00%
37) Toluene-d8	7.36	98	262028	25.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.96%
38) trans-1,3-Dichloropropene-	7.66	79	32292	24.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.84%
39) 2-Hexanone-d5	8.14	63	41573	67.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	134.24%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	89460	29.37	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	117.48%
61) 1,2-Dichlorobenzene-d4	11.67	152	99920	25.53	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	67857	20.632	ug/L	100
3) Chloromethane	1.24	50	59008	20.133	ug/L	100
5) Vinyl chloride	1.32	62	64764	20.287	ug/L	97
6) Bromomethane	1.52	94	56991	15.782	ug/L	99
8) Chloroethane	1.58	64	71611	25.660	ug/L	99
9) Trichlorofluoromethane	1.75	101	157093	23.873	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	80820	22.087	ug/L	96
12) 1,1-Dichloroethene	2.13	96	65920	21.204	ug/L	93
13) Acetone	2.19	43	37459	43.736	ug/L	95
14) Carbon disulfide	2.31	76	128909	19.980	ug/L	99
15) Methyl Acetate	2.46	43	47152	34.406	ug/L	100
16) Methylene chloride	2.53	84	74061	18.537	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	184655	27.733	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	63769	23.483	ug/L	99
19) 1,1-Dichloroethane	3.22	63	116970	25.352	ug/L	99
21) 2-Butanone	4.02	43	52996	56.500	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	75306	24.975	ug/L	98

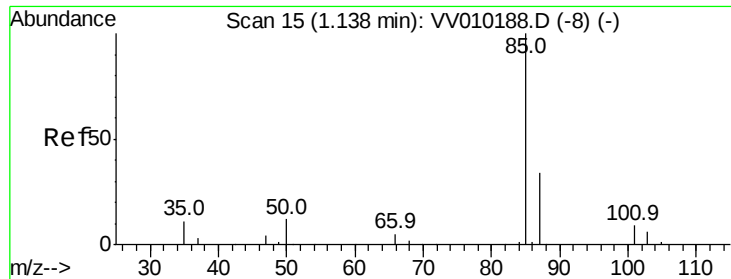
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	38677	26.437	ug/L	94
25) Chloroform	4.42	83	134553	26.023	ug/L	98
27) 1,2-Dichloroethane	5.18	62	92406	26.200	ug/L	98
30) Cyclohexane	4.72	56	89976	24.703	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	110122	26.761	ug/L	99
32) Carbon tetrachloride	4.87	117	97481	26.503	ug/L	96
34) Benzene	5.14	78	260046	26.354	ug/L	100
35) Trichloroethene	5.96	95	74968	26.396	ug/L	98
36) Methylcyclohexane	6.17	83	104759	24.621	ug/L	100
40) 1,2-Dichloropropane	6.22	63	66242	26.570	ug/L	100
41) Bromodichloromethane	6.55	83	90156	27.806	ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	91693	25.407	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	121454	65.842	ug/L	99
44) Toluene	7.43	91	285165	25.750	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	81787	26.646	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	65462	29.612	ug/L	99
47) Tetrachloroethene	8.02	164	60333	25.379	ug/L	96
49) 2-Hexanone	8.18	43	84306	63.987	ug/L	100
50) Dibromochloromethane	8.29	129	72664	29.322	ug/L	95
51) 1,2-Dibromoethane	8.40	107	66034	30.225	ug/L	97
52) Chlorobenzene	8.93	112	191861	25.400	ug/L	100
53) Ethylbenzene	9.05	91	301394	24.819	ug/L	98
54) m,p-Xylene	9.18	106	119602	25.305	ug/L	95
55) o-xylene	9.59	106	114325	24.967	ug/L	92
56) Styrene	9.60	104	191581	25.292	ug/L	98
57) Isopropylbenzene	9.97	105	298756	24.739	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	82859	29.183	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	63666	31.270	ug/L	98
62) Bromoform	9.77	173	42018	29.730	ug/L #	98
63) 1,3-Dichlorobenzene	11.23	146	146780	24.886	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	150247	24.455	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	148586	25.644	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	12758	32.474	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	106775	24.378	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	85739	25.563	ug/L	98
69) Naphthalene	13.55	128	174328	31.241	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	87600	27.975	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 20.632 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

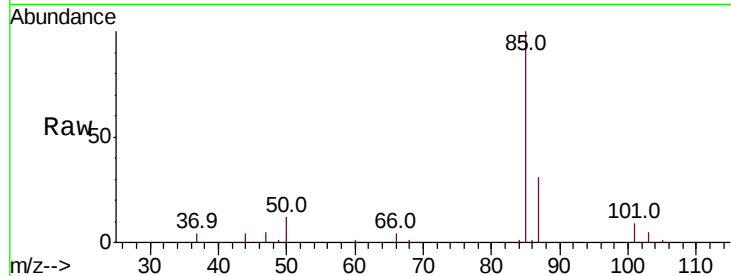
VSTD02587

Tot Ion: 85 Resp: 67857

Ion Ratio Lower Upper

85 100

87 31.9 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV010188.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010188.D (-8) (-)

1.13

80000

60000

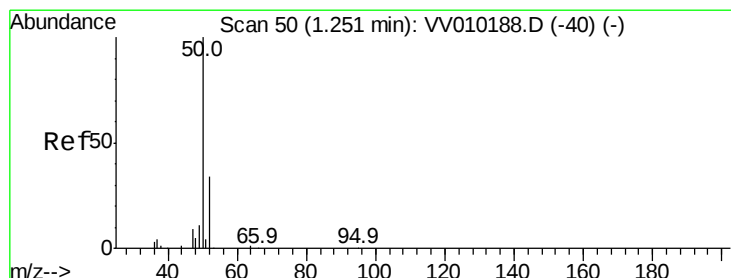
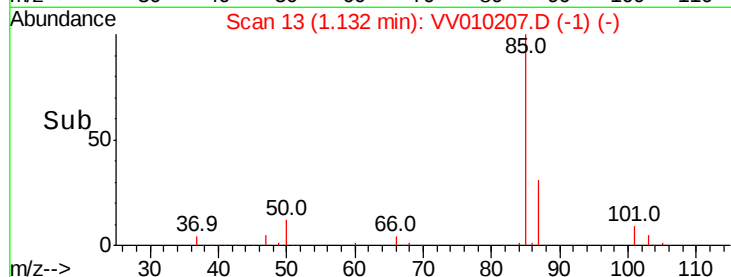
40000

20000

0

1.10 1.15

Time-->



#3

Chloromethane

Concen: 20.133 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV010207.D

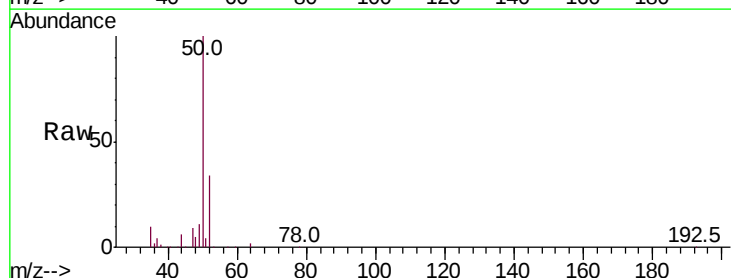
Acq: 09 Apr 2019 06:46

Tgt Ion: 50 Resp: 59008

Ion Ratio Lower Upper

50 100

52 33.6 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV010188.D (-40) (-)

Ion 52.00 (51.70 to 52.70): VV010188.D (-40) (-)

1.24

60000

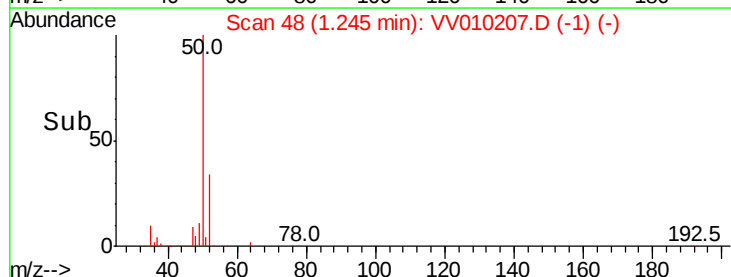
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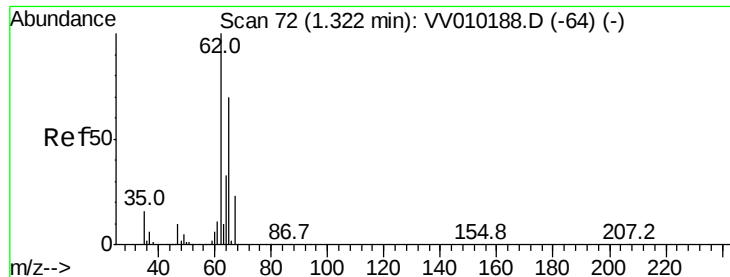
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 20.287 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

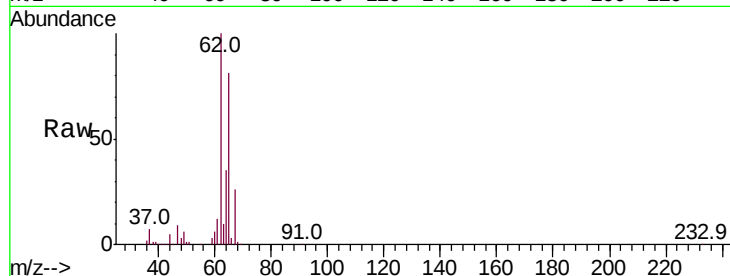
VSTD02587

Tot Ion: 62 Resp: 64764

Ion Ratio Lower Upper

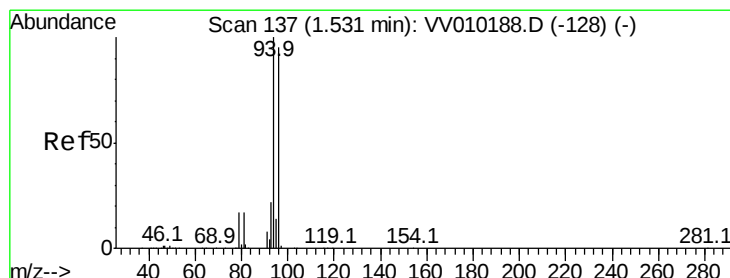
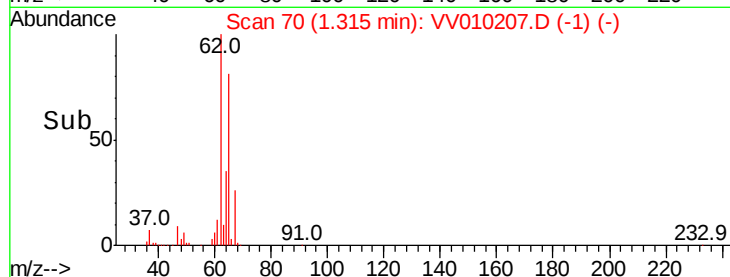
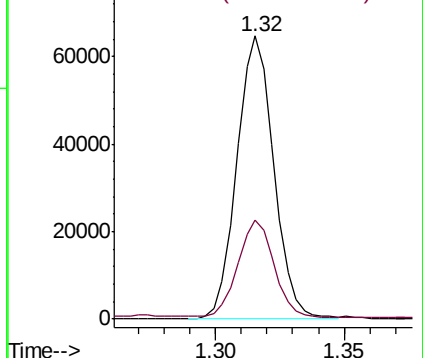
62 100

64 35.0 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 15.782 ug/L

RT: 1.52 min Scan# 133

Delta R.T. -0.01 min

Lab File: VV010207.D

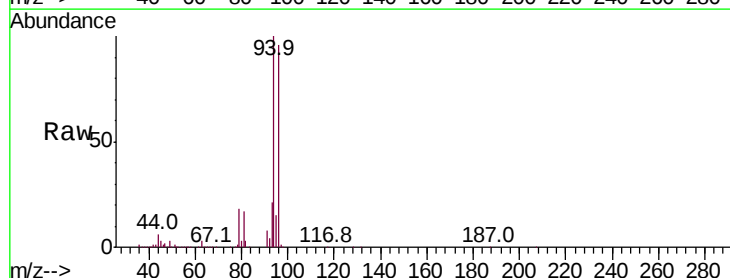
Acq: 09 Apr 2019 06:46

Tgt Ion: 94 Resp: 56991

Ion Ratio Lower Upper

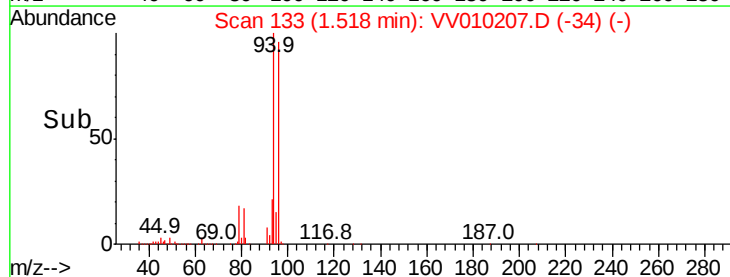
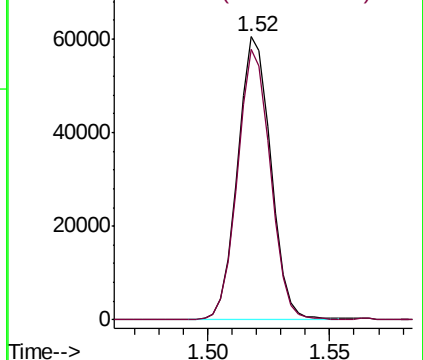
94 100

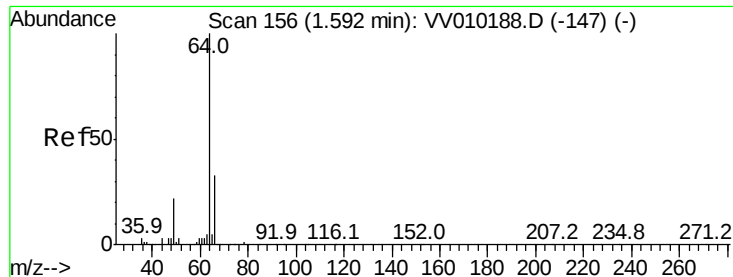
96 94.4 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 25.660 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

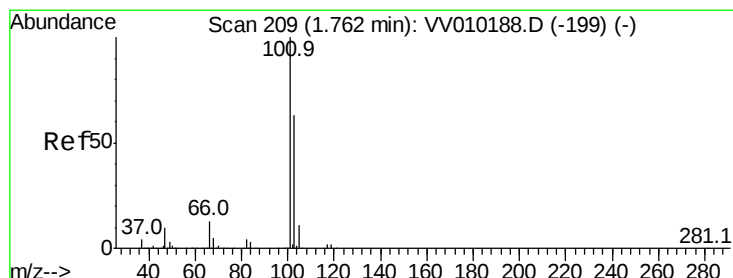
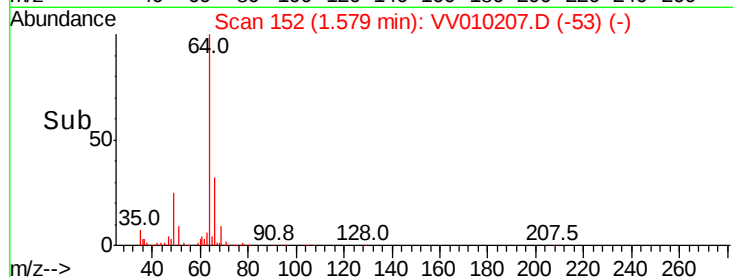
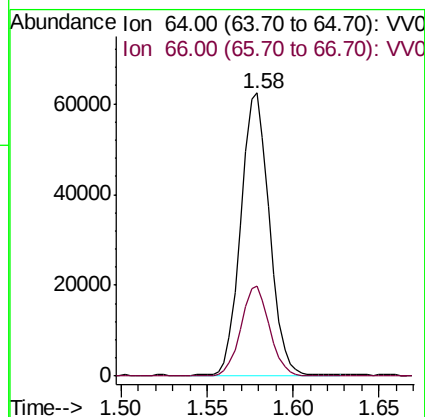
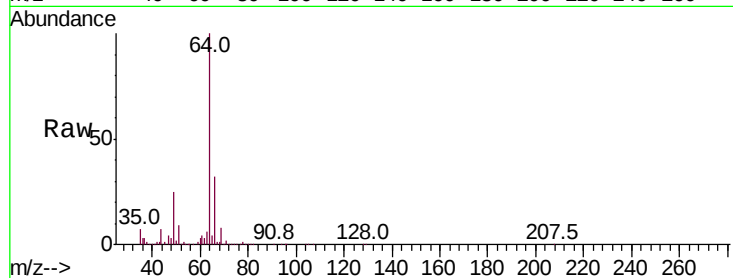
VSTD02587

Tot Ion: 64 Resp: 71611

Ion Ratio Lower Upper

64 100

66 32.0 22.9 42.5



#9

Trichlorofluoromethane

Concen: 23.873 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.01 min

Lab File: VV010207.D

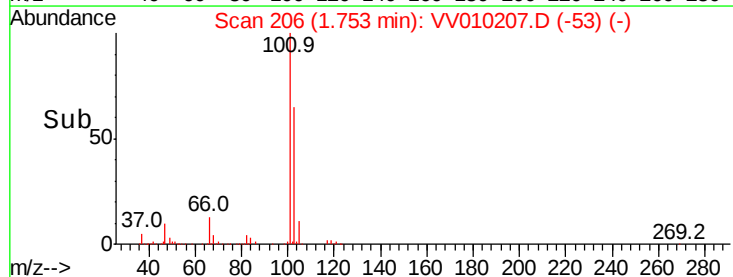
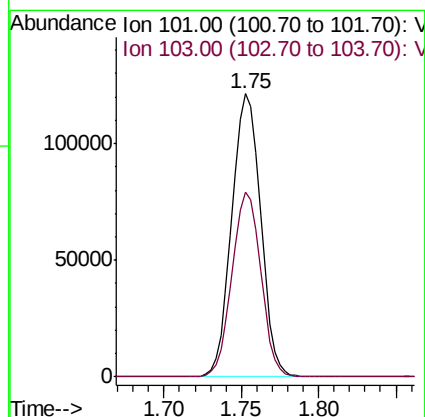
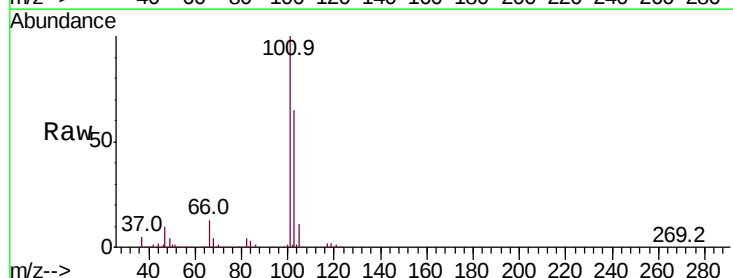
Acq: 09 Apr 2019 06:46

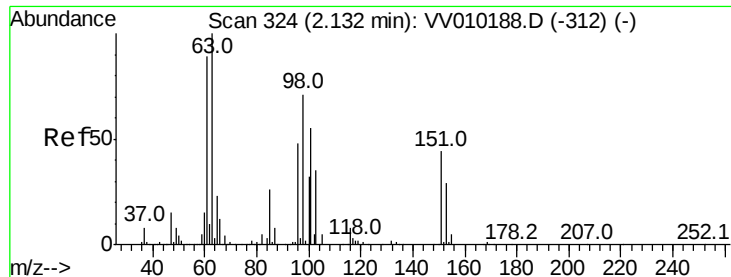
Tgt Ion:101 Resp: 157093

Ion Ratio Lower Upper

101 100

103 64.9 46.1 85.5





#11

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

Concen: 22.087 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

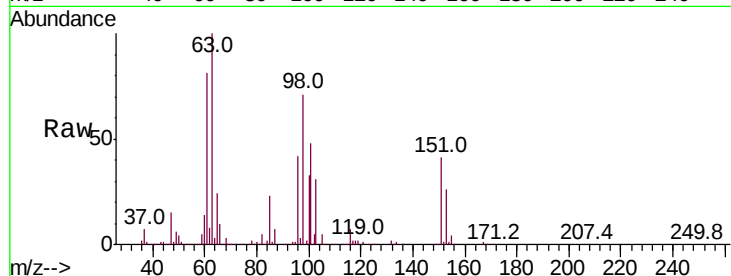
Tot Ion:101 Resp: 80820

Ion Ratio Lower Upper

101 100

85 47.5 37.3 55.9

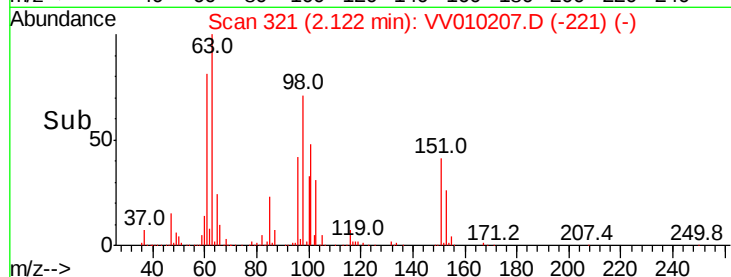
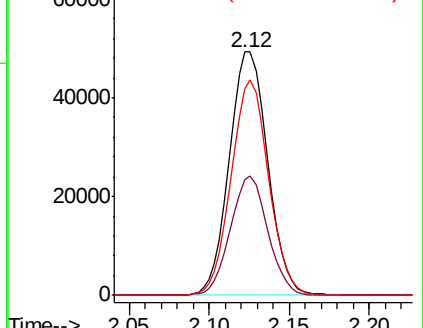
151 86.4 65.4 98.2



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: 21.204 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

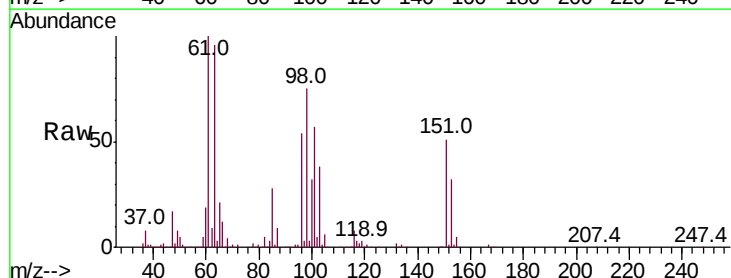
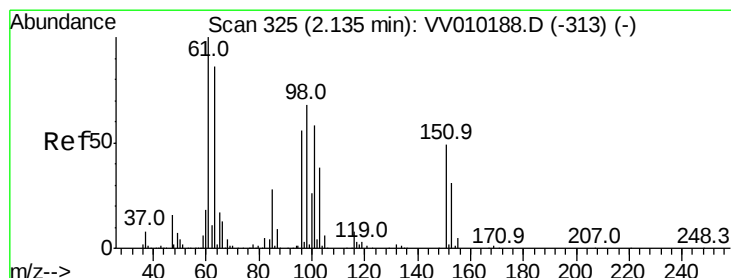
Tgt Ion: 96 Resp: 65920

Ion Ratio Lower Upper

96 100

61 184.8 127.8 237.4

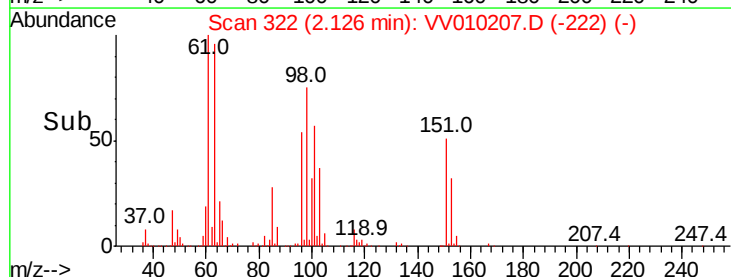
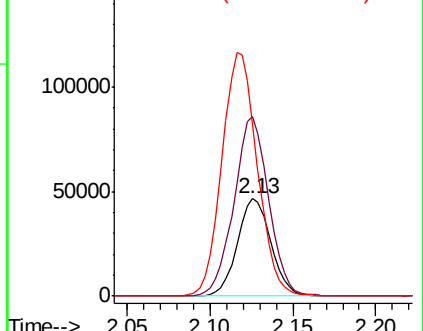
63 177.0 112.6 209.2

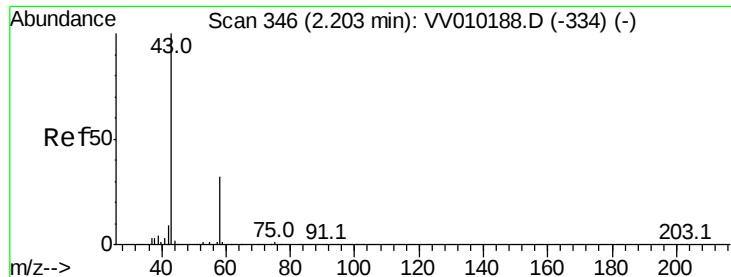


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.736 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

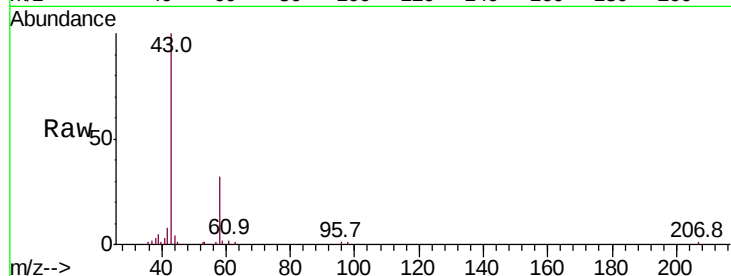
VSTD02587

Tot Ion: 43 Resp: 37459

Ion Ratio Lower Upper

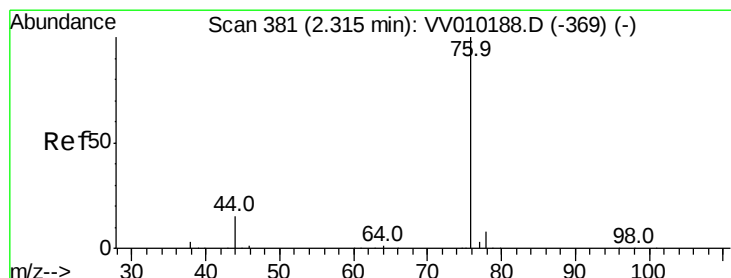
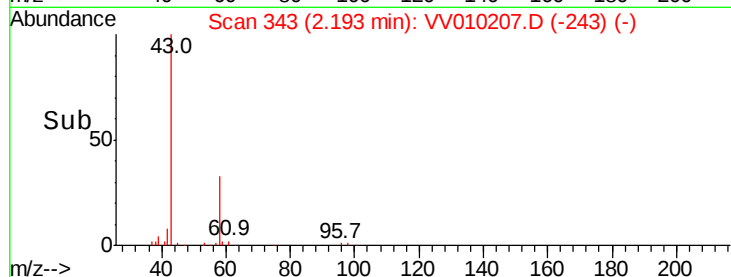
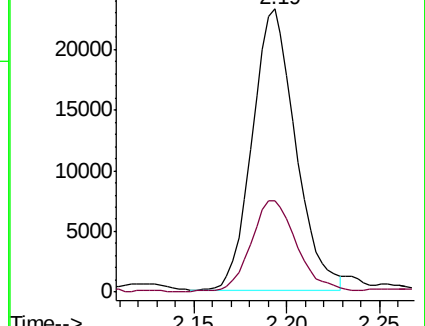
43 100

58 35.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010188.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010188.D (-334) (-)



#14

Carbon disulfide

Concen: 19.980 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010207.D

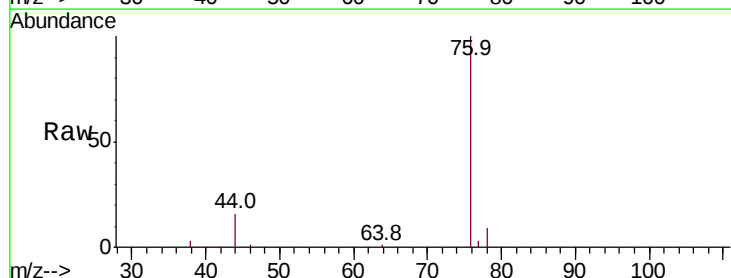
Acq: 09 Apr 2019 06:46

Tgt Ion: 76 Resp: 128909

Ion Ratio Lower Upper

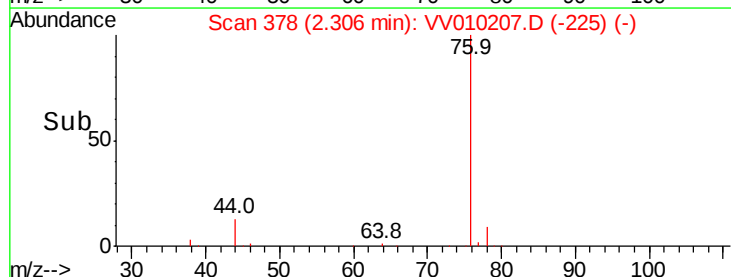
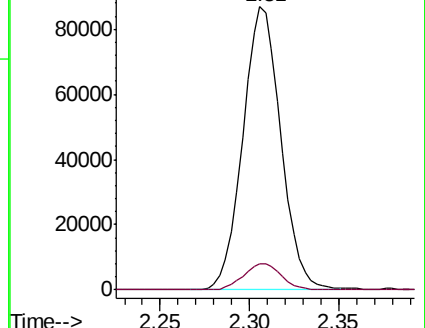
76 100

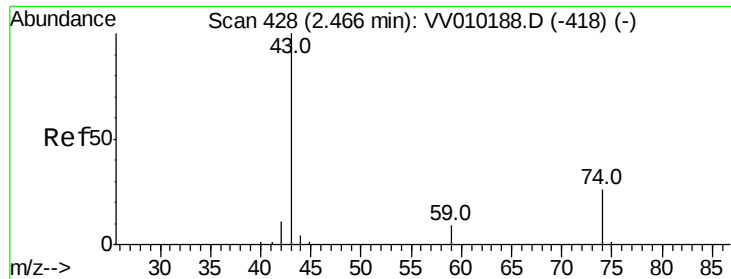
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010188.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010188.D (-369) (-)

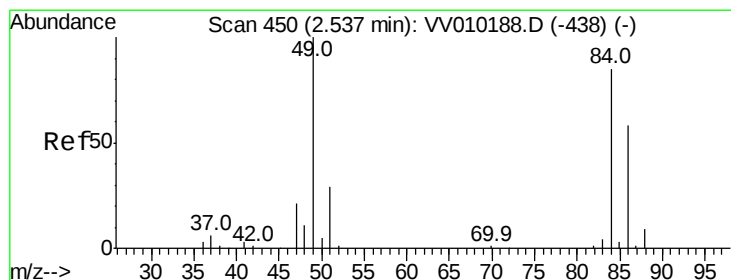
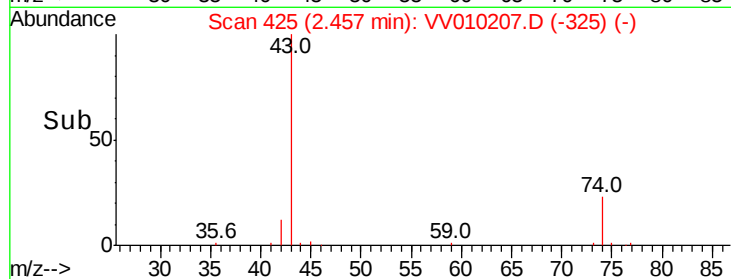
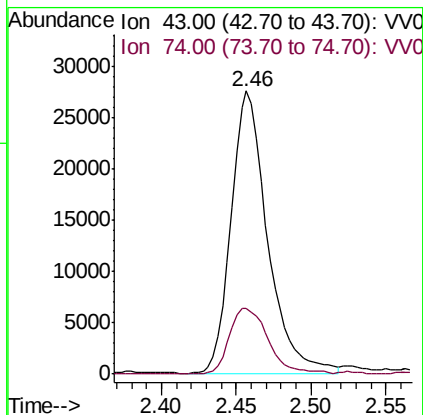
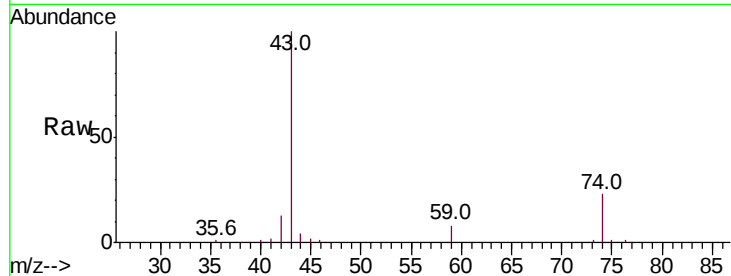




#15
Methvl Acetate
Concen: 34.406 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

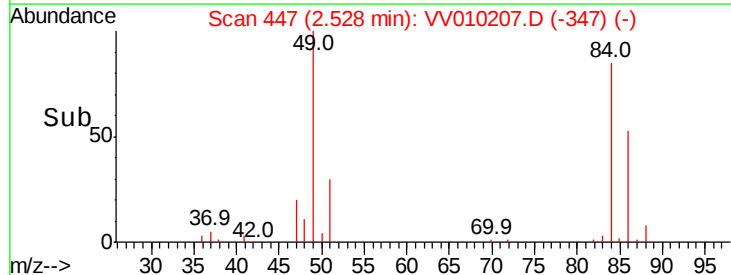
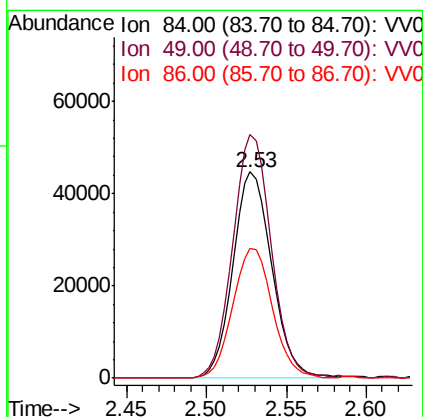
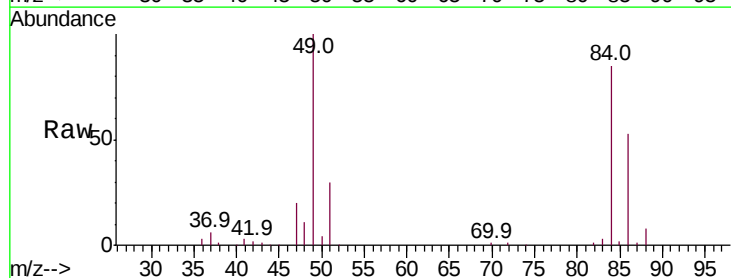
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

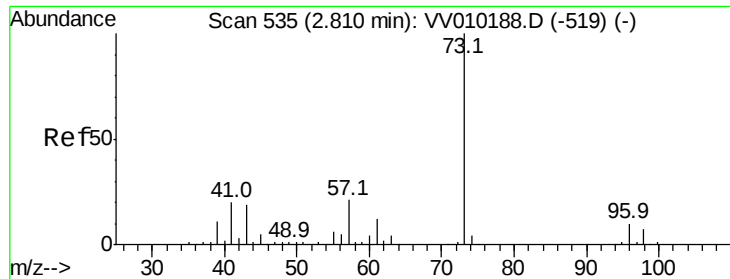
Tot Ion: 43 Resp: 47152
Ion Ratio Lower Upper
43 100
74 24.8 20.0 30.0



#16
Methylene chloride
Concen: 18.537 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.01 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Tgt Ion: 84 Resp: 74061
Ion Ratio Lower Upper
84 100
49 118.2 84.3 156.5
86 62.8 45.4 84.2

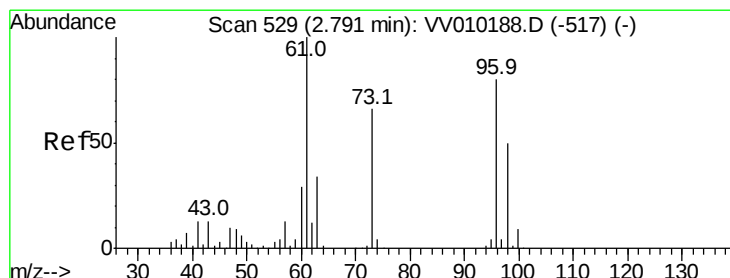
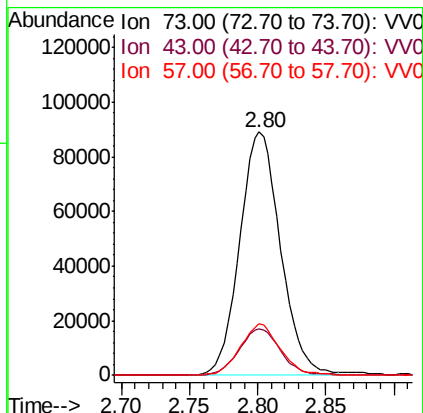
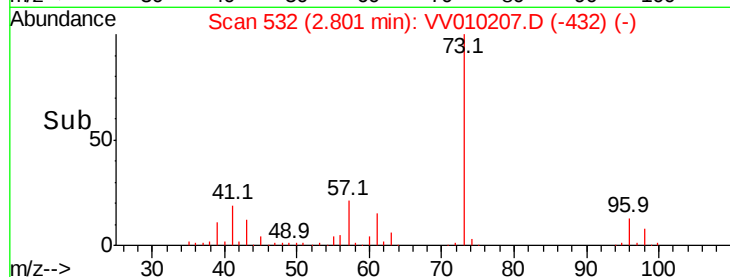
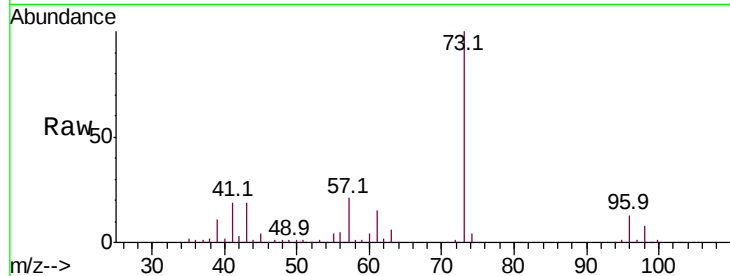




#17
Methvl tert-butvl Ether
Concen: 27.733 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.01 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

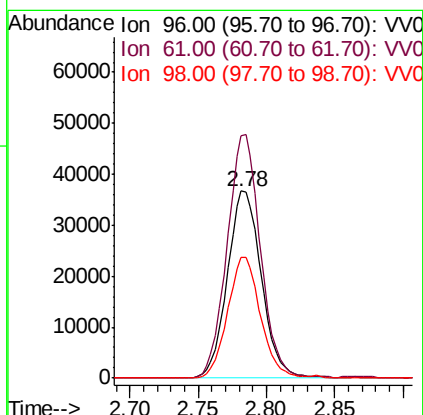
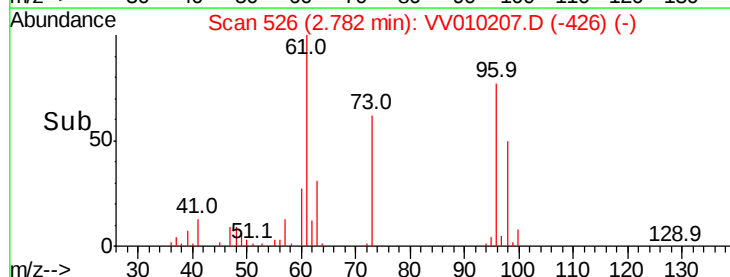
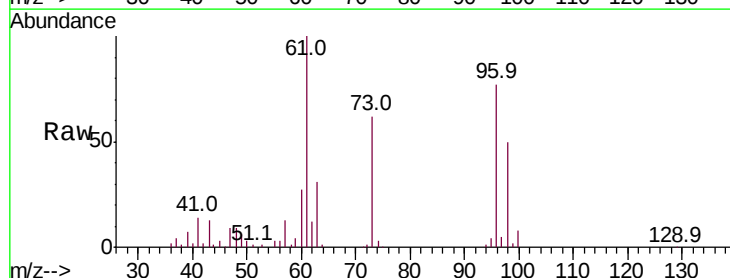
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

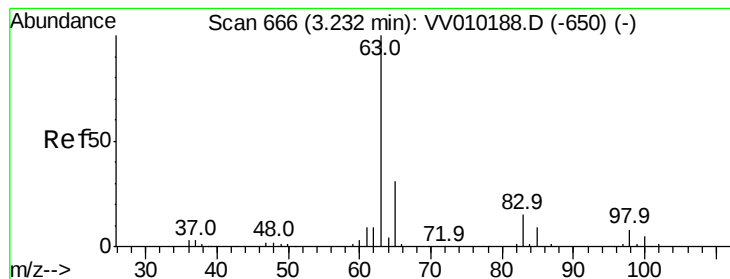
Tot Ion: 73 Resp: 184655
Ion Ratio Lower Upper
73 100
43 19.6 15.5 23.3
57 20.7 16.8 25.2



#18
trans-1,2-Dichloroethene
Concen: 23.483 ug/L
RT: 2.78 min Scan# 526
Delta R.T. -0.01 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Tgt Ion: 96 Resp: 63769
Ion Ratio Lower Upper
96 100
61 129.9 90.0 167.2
98 64.5 44.2 82.2





#19

1,1-Dichloroethane

Concen: 25.352 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

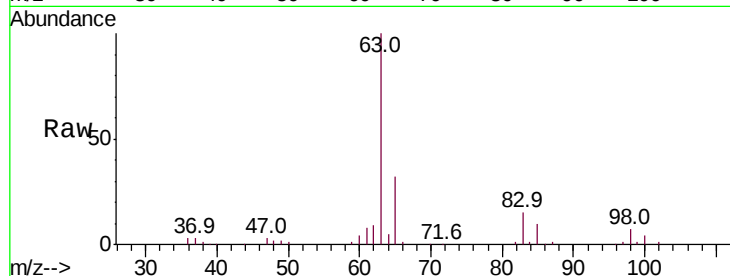
Tot Ion: 63 Resp: 116970

Ion Ratio Lower Upper

63 100

65 32.2 22.3 41.3

83 14.8 10.4 19.4

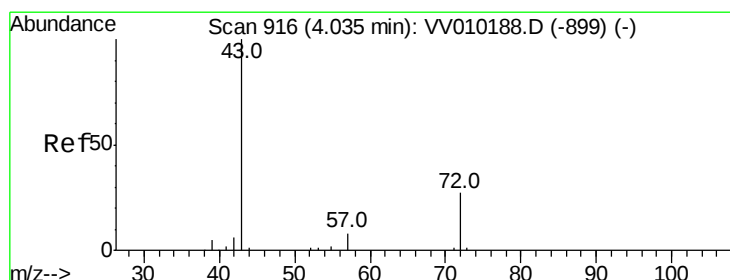
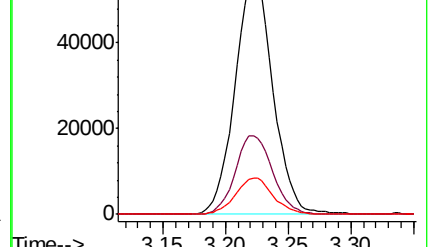
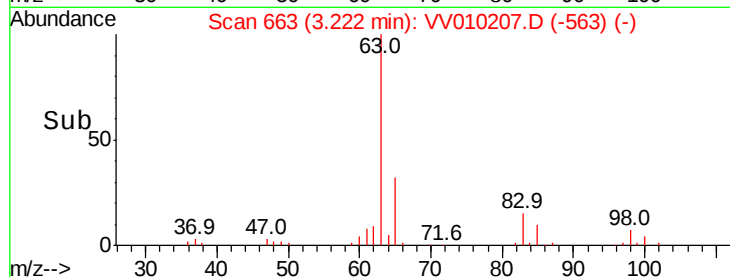


Abundance Ion 63.00 (62.70 to 63.70): VV010188.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV010188.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV010188.D (-650) (-)

Time-->



#21

2-Butanone

Concen: 56.500 ug/L

RT: 4.02 min Scan# 911

Delta R.T. -0.02 min

Lab File: VV010207.D

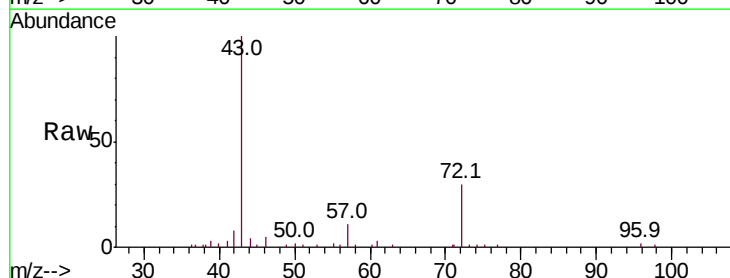
Acq: 09 Apr 2019 06:46

Tgt Ion: 43 Resp: 52996

Ion Ratio Lower Upper

43 100

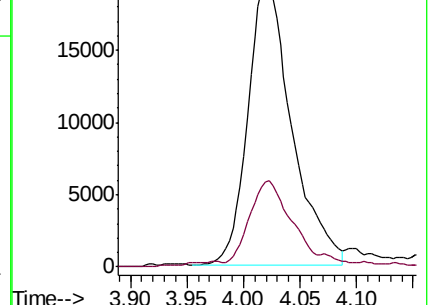
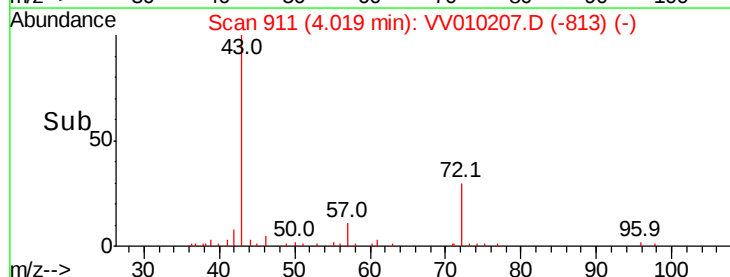
72 26.3 12.8 38.4

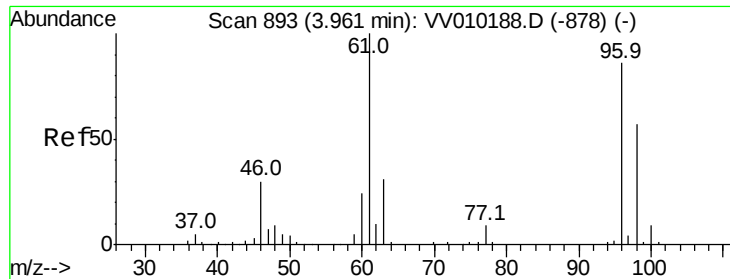


Abundance Ion 43.00 (42.70 to 43.70): VV010188.D (-899) (-)

Ion 72.00 (71.70 to 72.70): VV010188.D (-899) (-)

Time-->



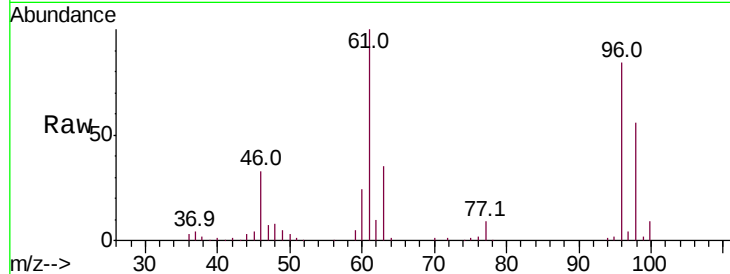


#22

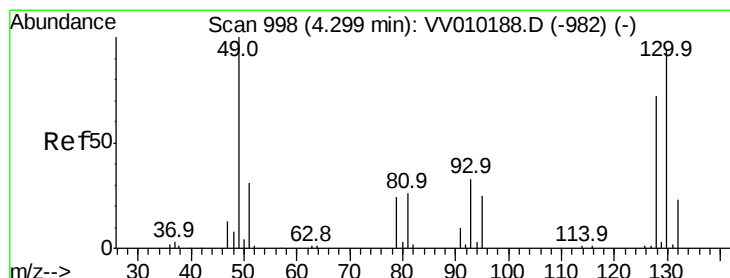
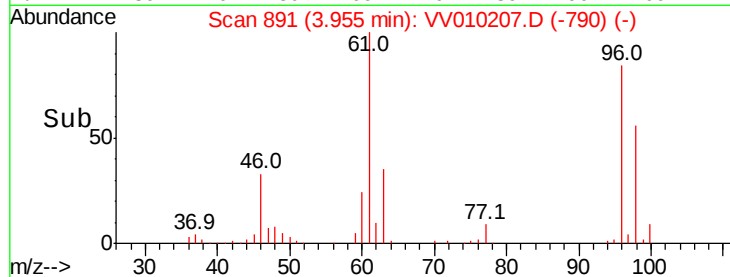
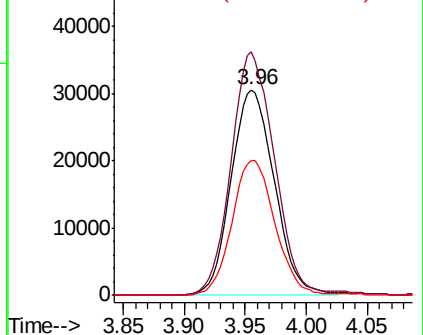
cis-1,2-Dichloroethene
 Concen: 24.975 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tot Ion: 96 Resp: 75306
 Ion Ratio Lower Upper
 96 100
 61 118.6 82.7 153.5
 98 66.0 43.9 81.5



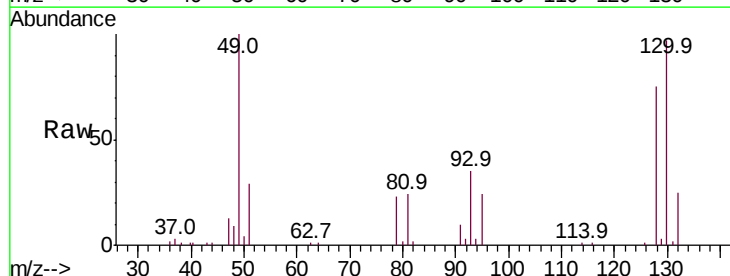
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



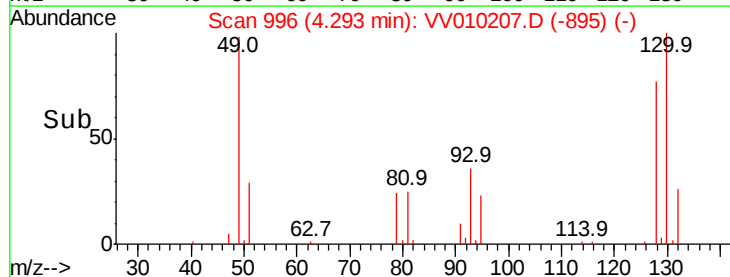
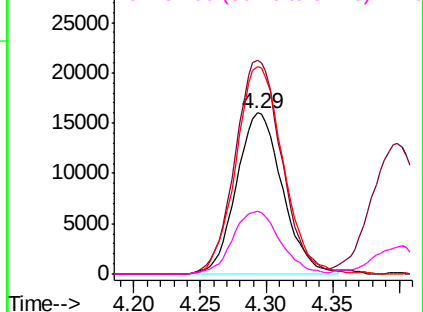
#23

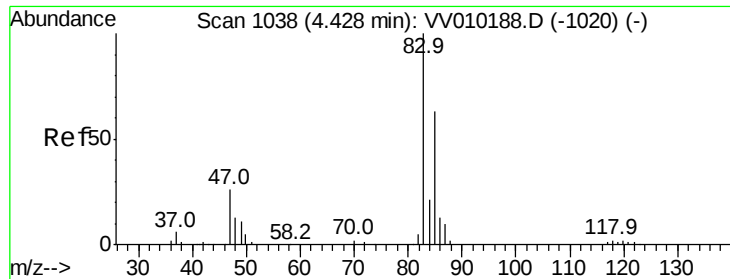
Bromochloromethane
 Concen: 26.437 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion: 128 Resp: 38677
 Ion Ratio Lower Upper
 128 100
 49 132.9 92.8 172.4
 130 129.4 80.6 149.6
 51 38.7 33.1 49.7



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: 26.023 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

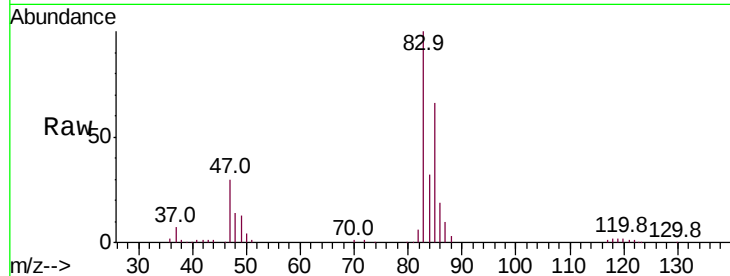
VSTD02587

Tot Ion: 83 Resp: 134553

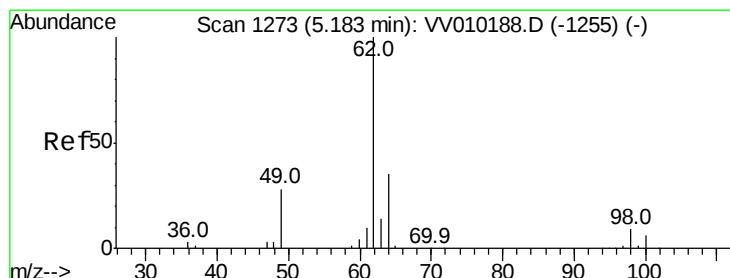
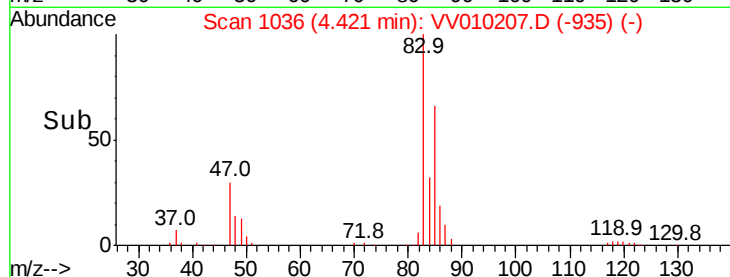
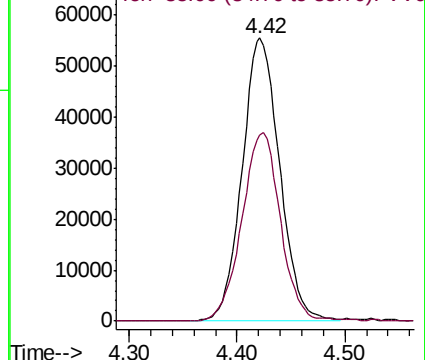
Ion Ratio Lower Upper

83 100

85 67.8 46.4 86.2



Abundance Ion 83.00 (82.70 to 83.70): VV010188.D (-1020) (-)



#27

1,2-Dichloroethane

Concen: 26.200 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VV010207.D

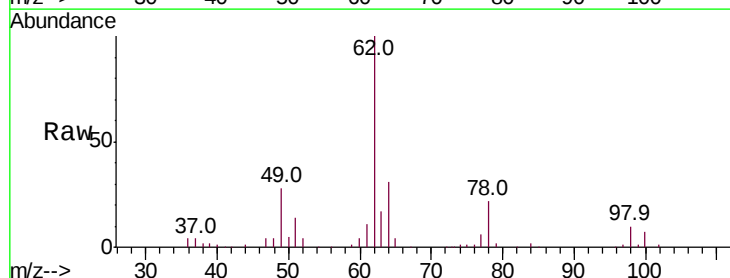
Acq: 09 Apr 2019 06:46

Tgt Ion: 62 Resp: 92406

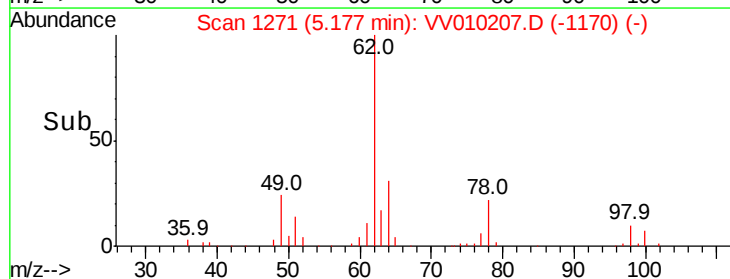
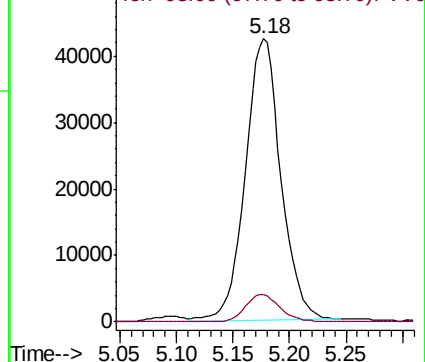
Ion Ratio Lower Upper

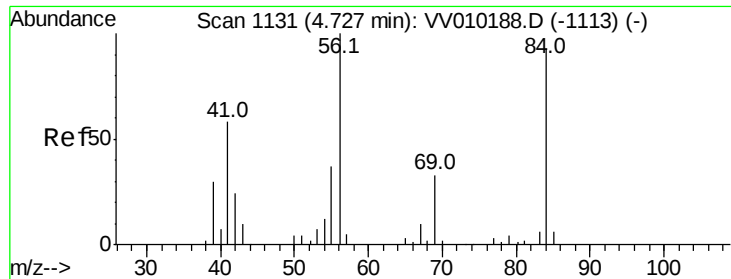
62 100

98 9.6 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VV010188.D (-1255) (-)

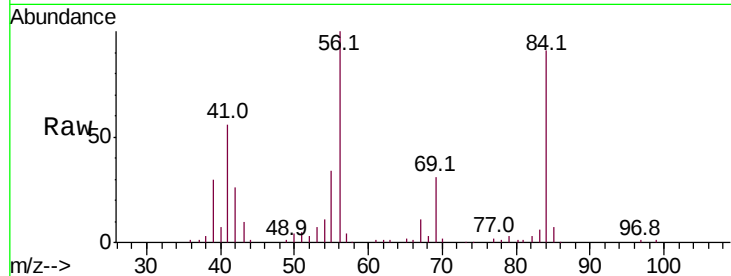




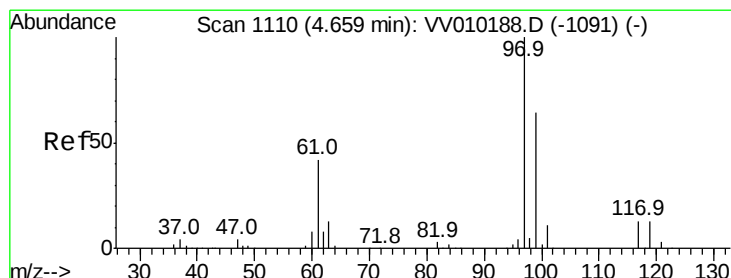
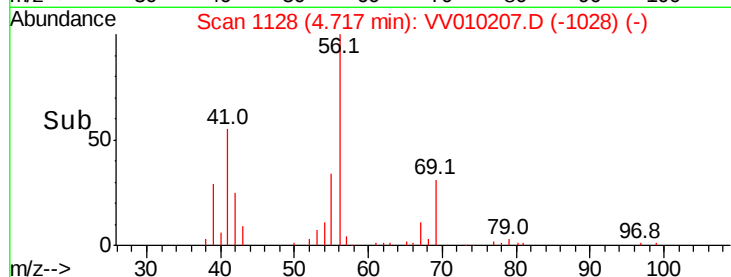
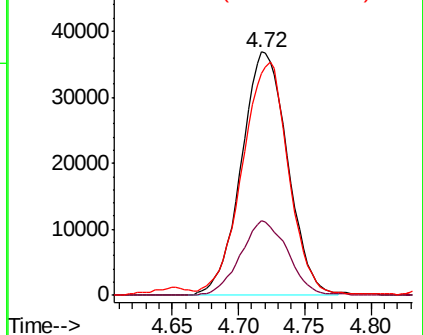
#30
Cvclohexane
Concen: 24.703 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tot Ion: 56 Resp: 89976
Ion Ratio Lower Upper
56 100
69 31.0 25.1 37.7
84 94.3 76.0 114.0

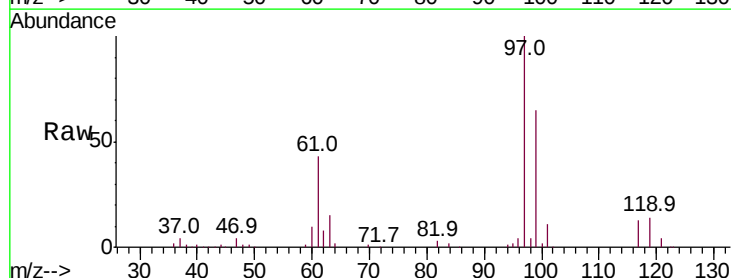


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

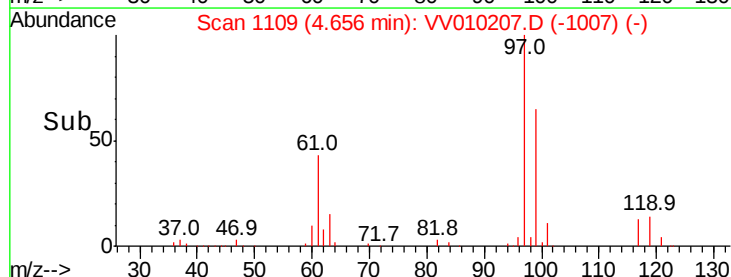
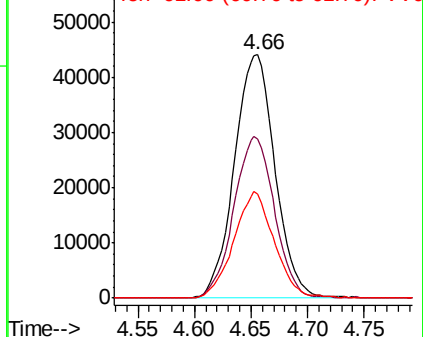


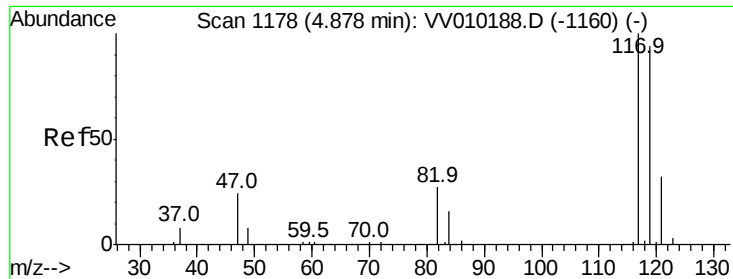
#31
1,1,1-Trichloroethane
Concen: 26.761 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Tgt Ion: 97 Resp: 110122
Ion Ratio Lower Upper
97 100
99 66.2 52.4 78.6
61 43.6 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 26.503 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

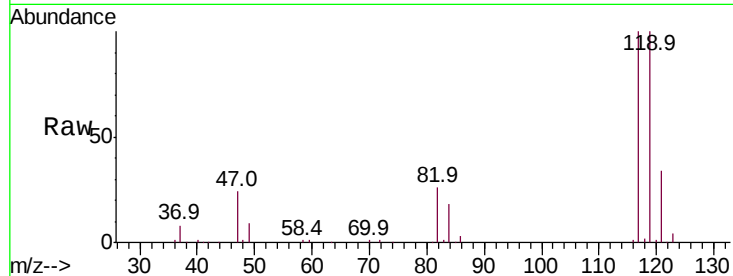
VSTD02587

Tot Ion:117 Resp: 97481

Ion Ratio Lower Upper

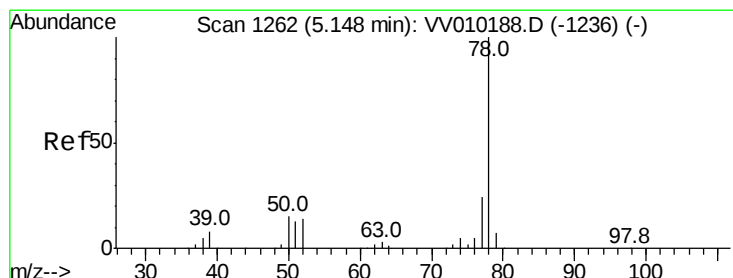
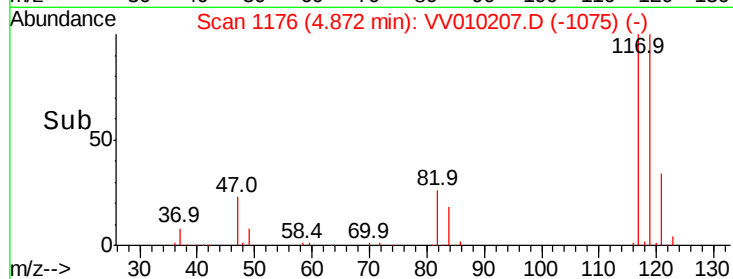
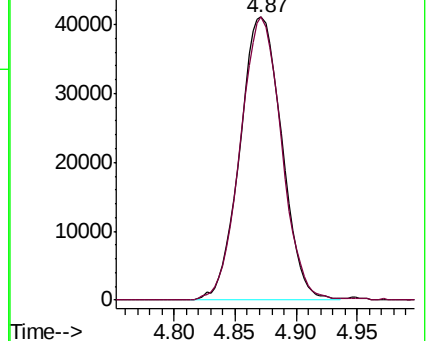
117 100

119 98.6 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.354 ug/L

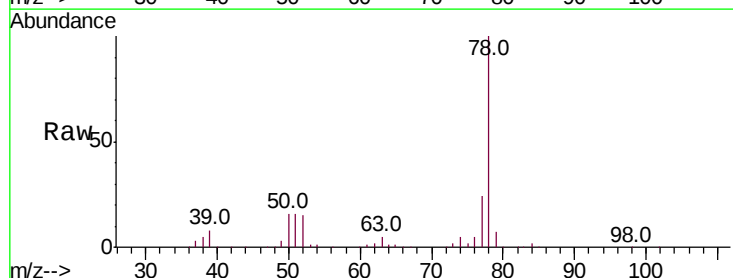
RT: 5.14 min Scan# 1260

Delta R.T. -0.01 min

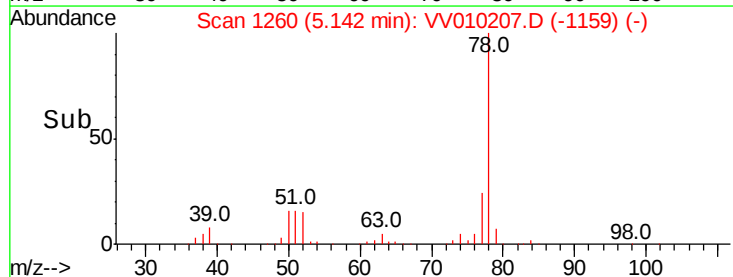
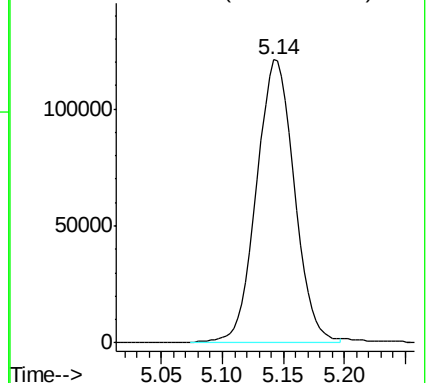
Lab File: VV010207.D

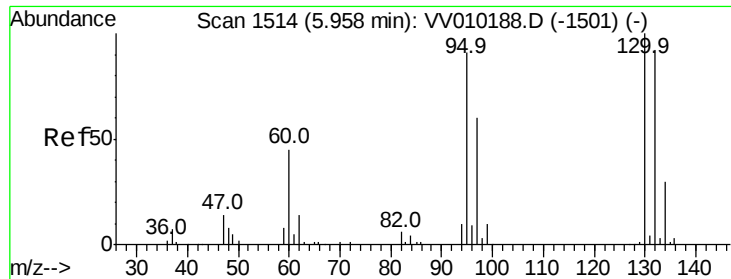
Acq: 09 Apr 2019 06:46

Tgt Ion: 78 Resp: 260046



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 26.396 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

Tot Ion: 95 Resp: 74968

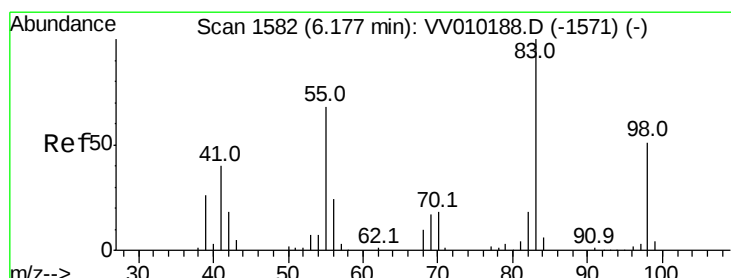
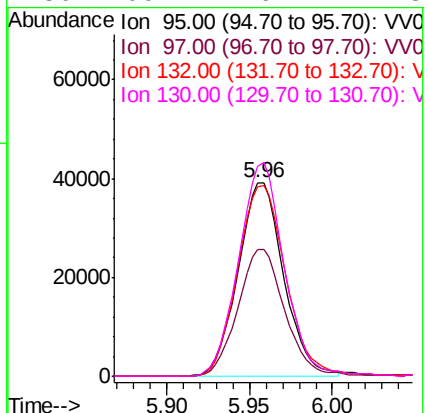
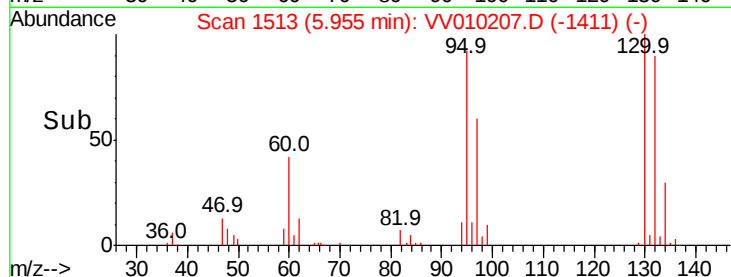
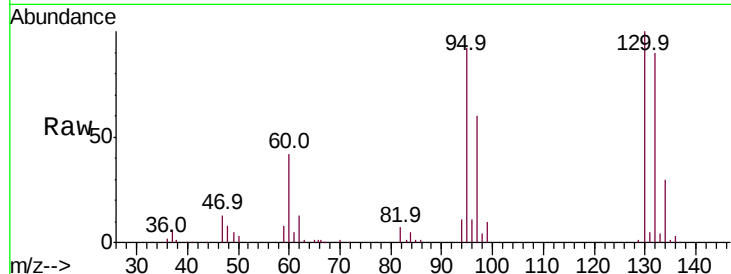
Ion Ratio Lower Upper

95 100

97 66.4 45.8 85.2

132 103.3 70.6 131.0

130 109.7 76.1 141.3



#36

Methylcyclohexane

Concen: 24.621 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

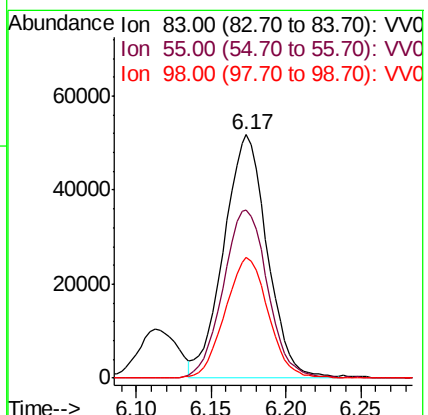
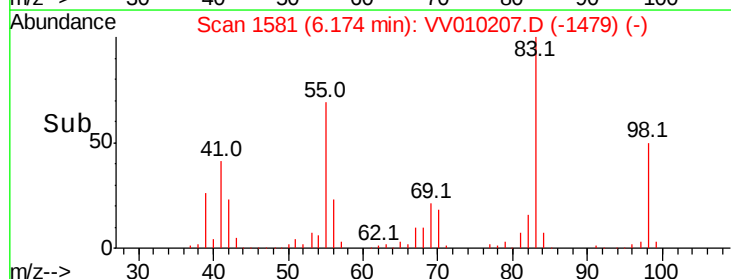
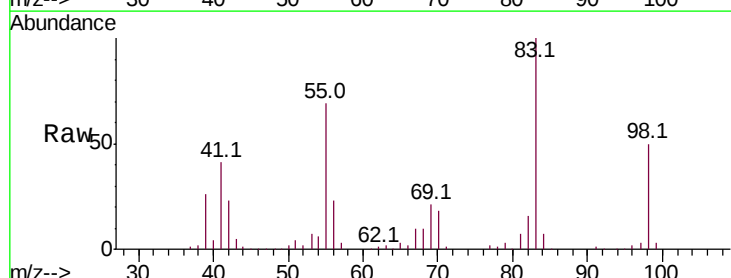
Tgt Ion: 83 Resp: 104759

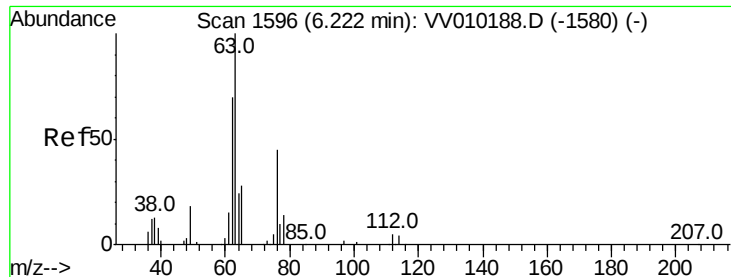
Ion Ratio Lower Upper

83 100

55 70.4 56.3 84.5

98 49.2 39.0 58.6





#40

1,2-Dichloropropane

Concen: 26.570 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

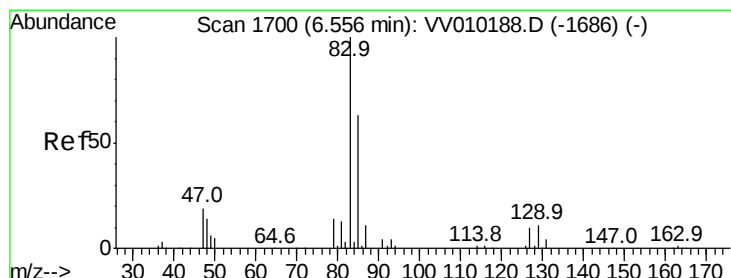
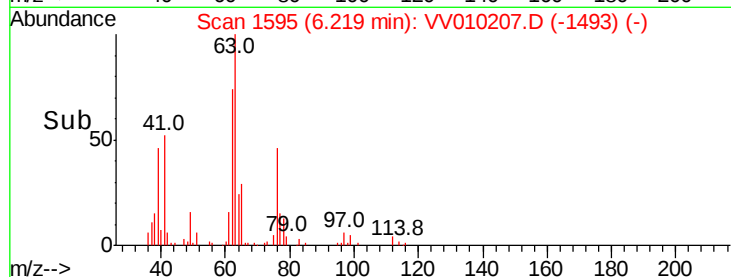
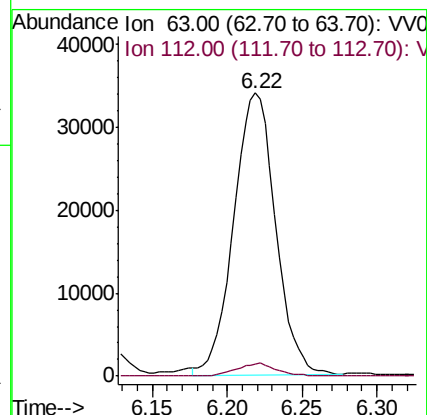
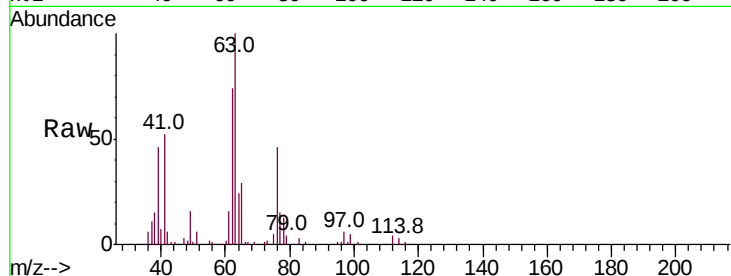
VSTD02587

Tot Ion: 63 Resp: 66242

Ion Ratio Lower Upper

63 100

112 4.4 3.6 5.4



#41

Bromodichloromethane

Concen: 27.806 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

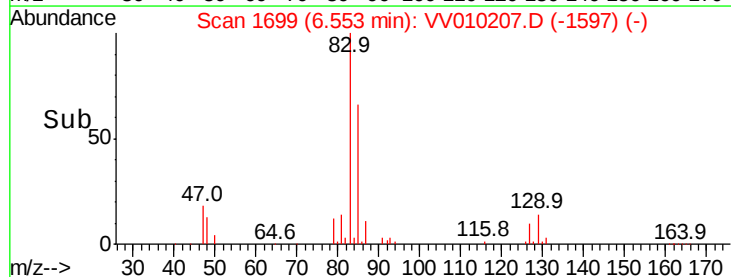
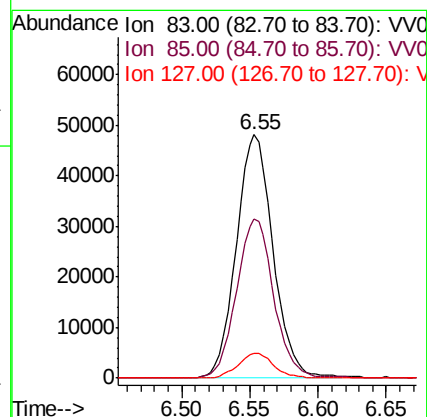
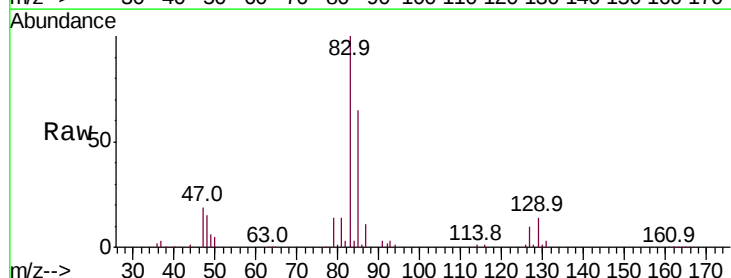
Tgt Ion: 83 Resp: 90156

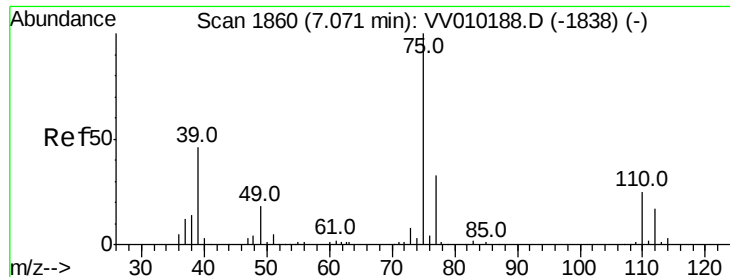
Ion Ratio Lower Upper

83 100

85 65.5 47.5 88.3

127 10.3 7.7 11.5



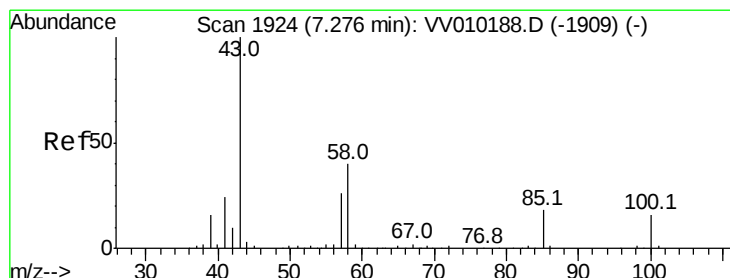
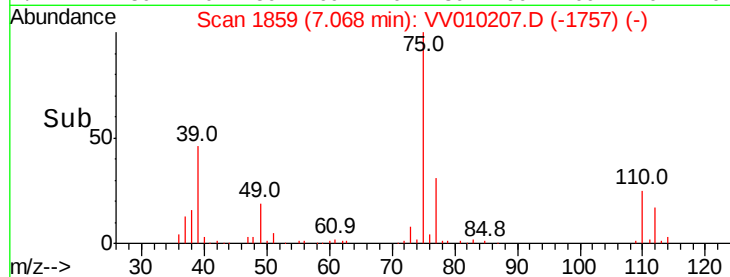
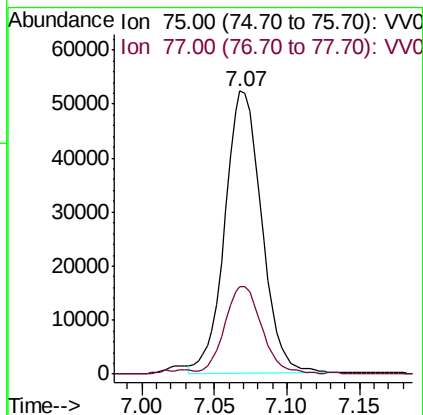
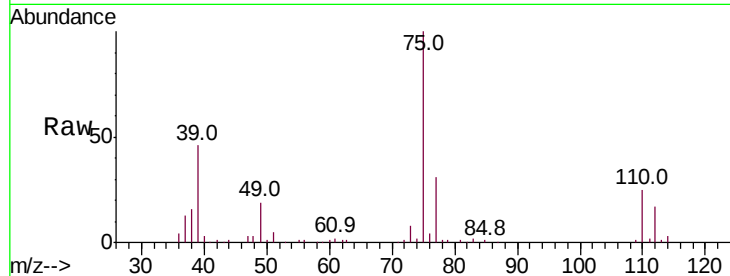


#42

cis-1,3-Dichloropropene
 Concen: 25.407 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02587

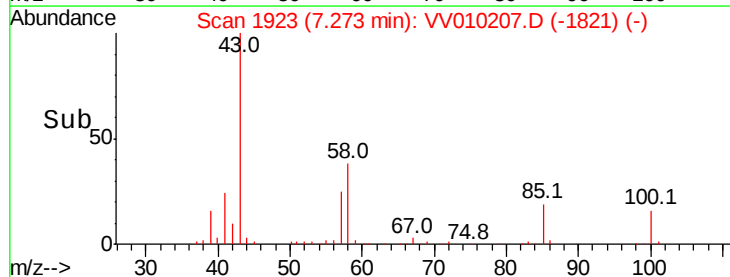
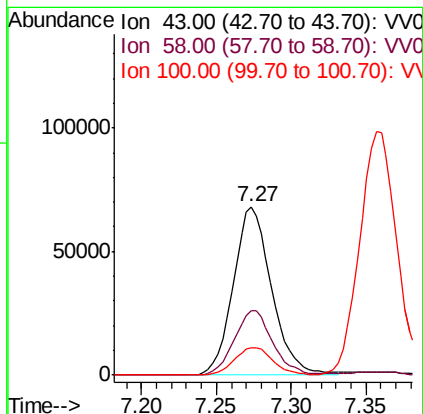
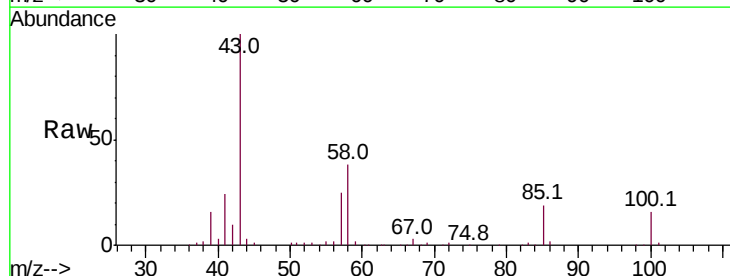
Tot Ion: 75 Resp: 91693
 Ion Ratio Lower Upper
 75 100
 77 31.0 22.1 41.1

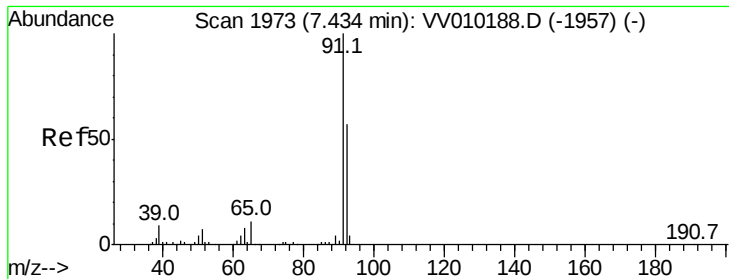


#43

4-Methyl-2-pentanone
 Concen: 65.842 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion: 43 Resp: 121454
 Ion Ratio Lower Upper
 43 100
 58 38.4 31.5 47.3
 100 16.6 13.4 20.0





#44

Toluene

Concen: 25.750 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

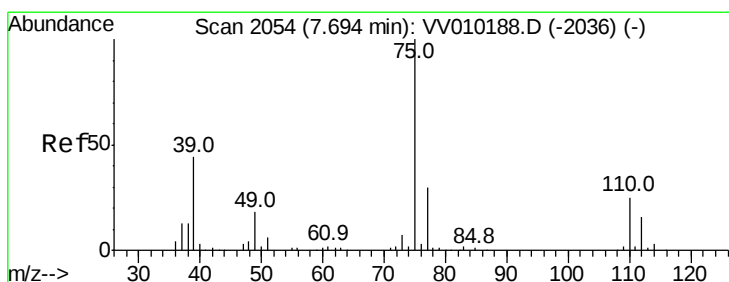
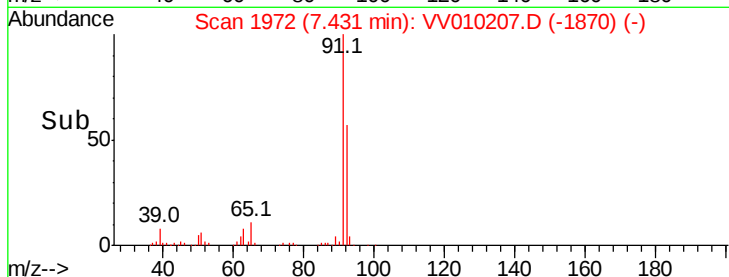
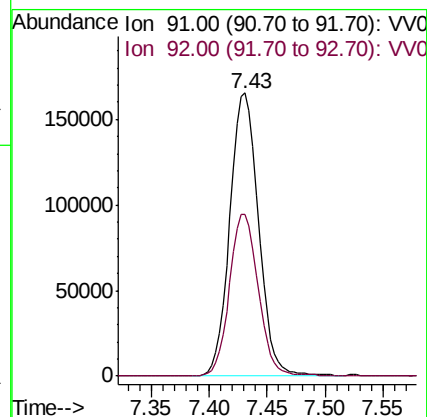
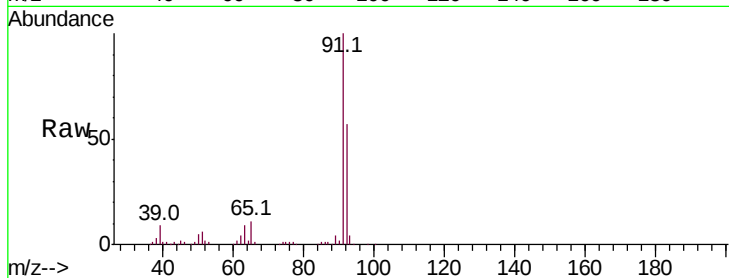
VSTD02587

Tot Ion: 91 Resp: 285165

Ion Ratio Lower Upper

91 100

92 57.3 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 26.646 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010207.D

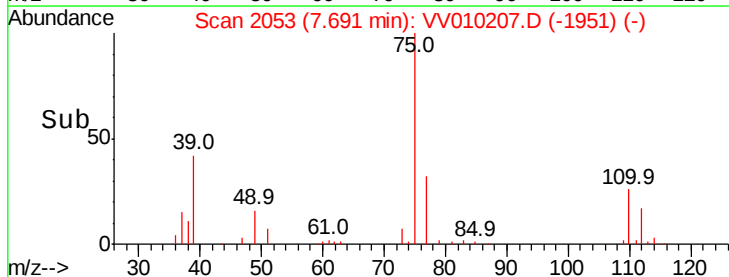
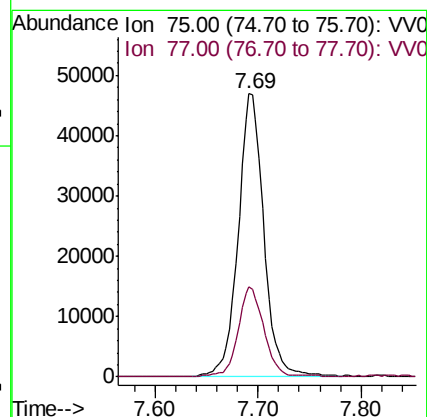
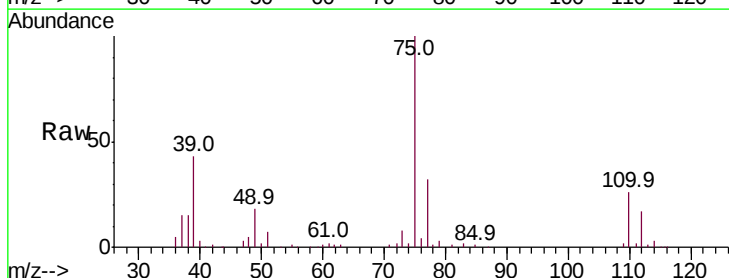
Acq: 09 Apr 2019 06:46

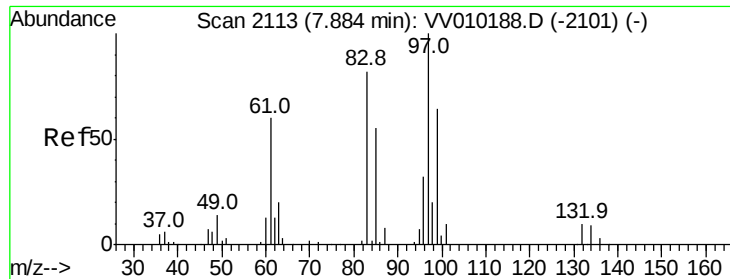
Tgt Ion: 75 Resp: 81787

Ion Ratio Lower Upper

75 100

77 32.0 23.5 43.7

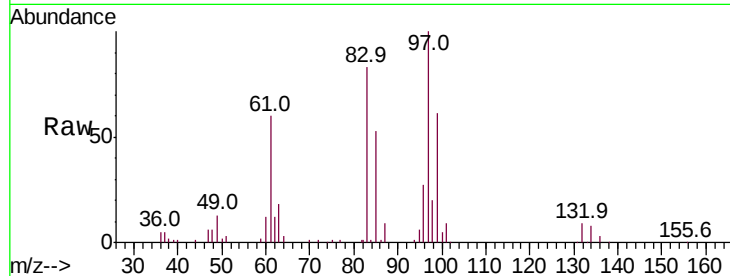




#46
 1,1,2-Trichloroethane
 Concen: 29.612 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tot Ion: 97 Resp: 65462
 Ion Ratio Lower Upper
 97 100
 83 83.5 58.5 108.7
 85 52.7 37.2 69.2
 99 60.5 43.3 80.3



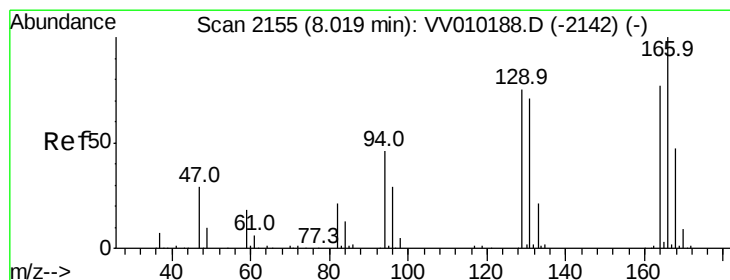
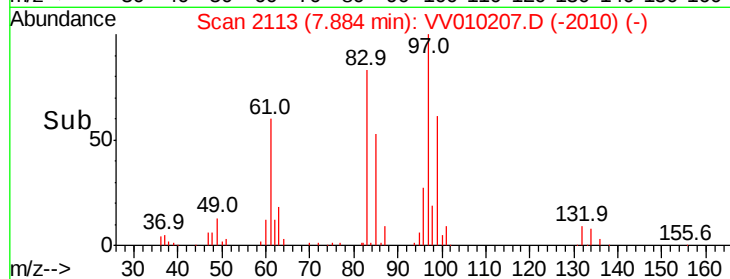
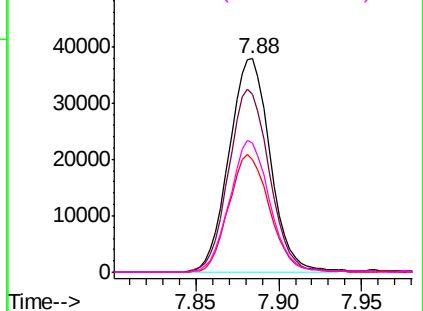
Abundance

Ion 97.00 (96.70 to 97.70): VV010188.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV010188.D (-2101) (-)

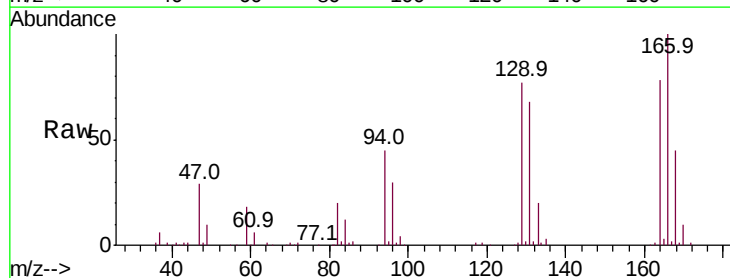
Ion 85.00 (84.70 to 85.70): VV010188.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV010188.D (-2101) (-)



#47
 Tetrachloroethene
 Concen: 25.379 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion: 164 Resp: 60333
 Ion Ratio Lower Upper
 164 100
 129 97.9 67.8 125.8
 131 87.0 65.2 121.0
 166 127.5 93.8 174.2



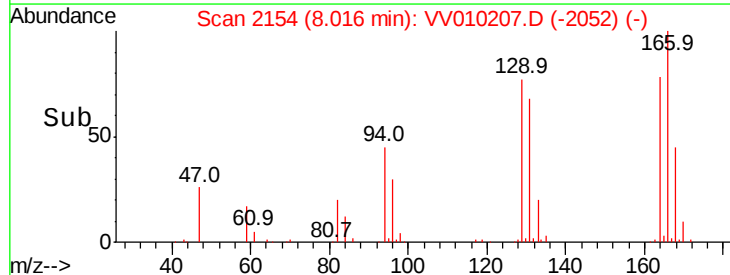
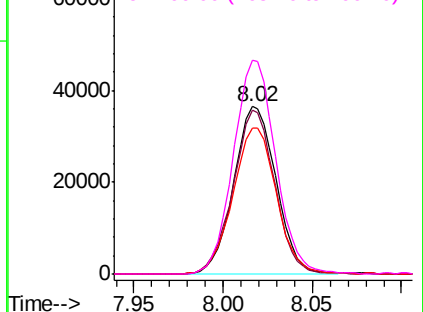
Abundance

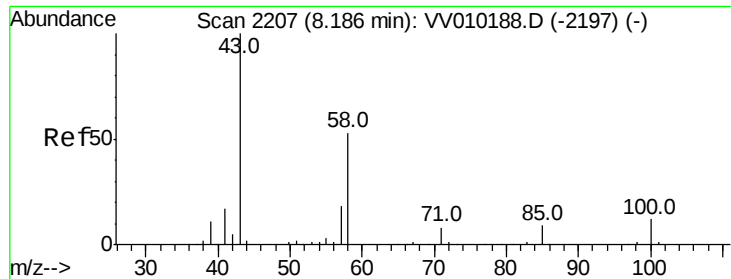
Ion 164.00 (163.70 to 164.70): VV010188.D (-2142) (-)

Ion 129.00 (128.70 to 129.70): VV010188.D (-2142) (-)

Ion 131.00 (130.70 to 131.70): VV010188.D (-2142) (-)

Ion 166.00 (165.70 to 166.70): VV010188.D (-2142) (-)

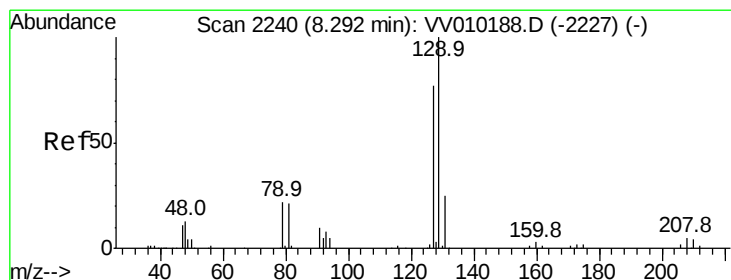
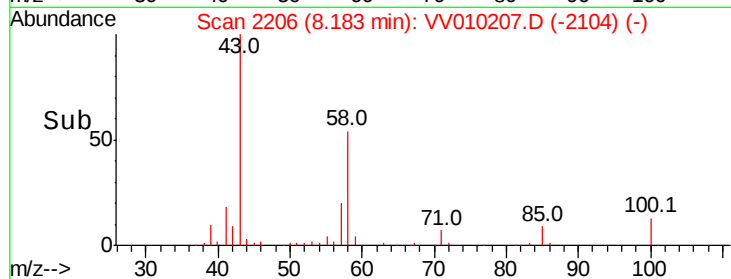
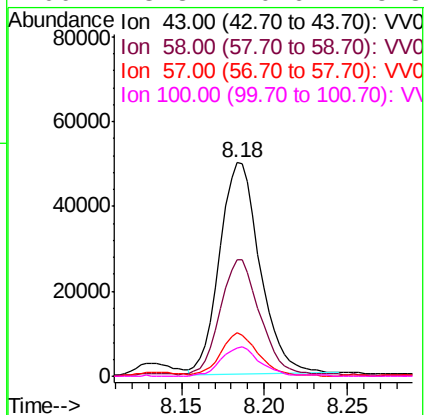
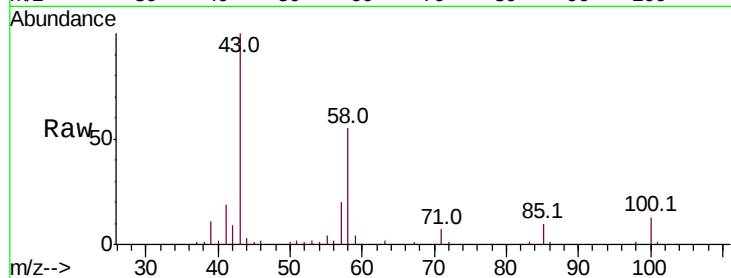




#49
2-Hexanone
Concen: 63.987 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

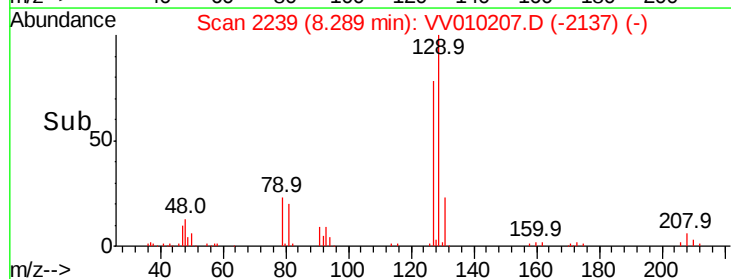
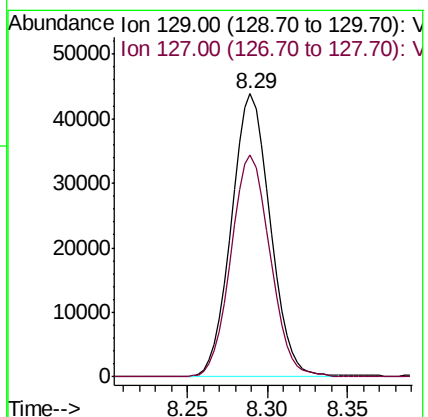
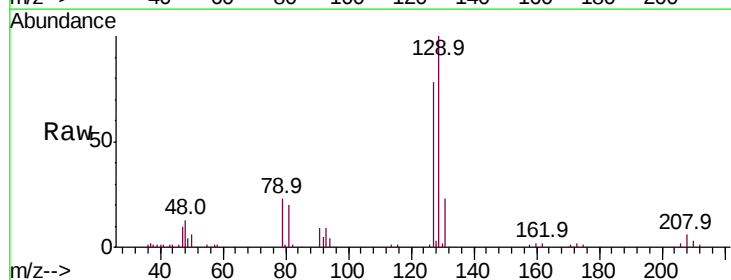
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

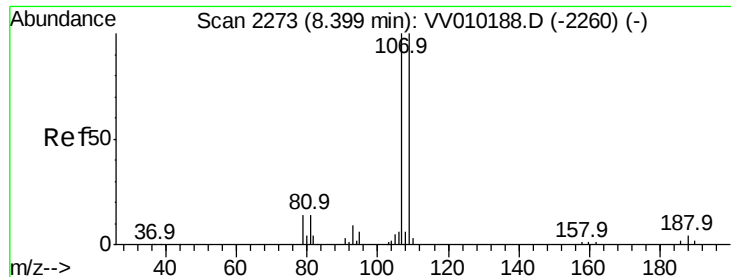
Tot Ion: 43 Resp: 84306
Ion Ratio Lower Upper
43 100
58 55.3 44.3 66.5
57 17.8 13.8 20.8
100 13.3 10.6 15.8



#50
Dibromochloromethane
Concen: 29.322 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Tgt Ion: 129 Resp: 72664
Ion Ratio Lower Upper
129 100
127 78.2 52.1 96.7





#51

1,2-Dibromoethane

Concen: 30.225 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

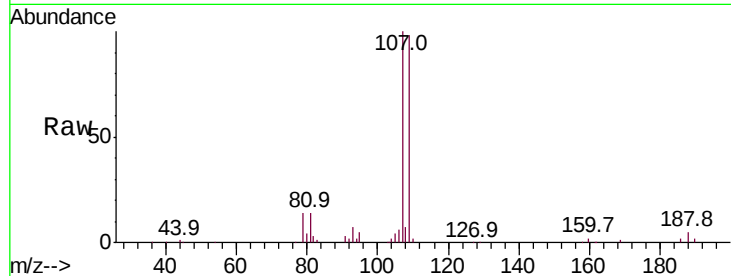
Tot Ion:107 Resp: 66034

Ion Ratio Lower Upper

107 100

109 97.6 66.5 123.5

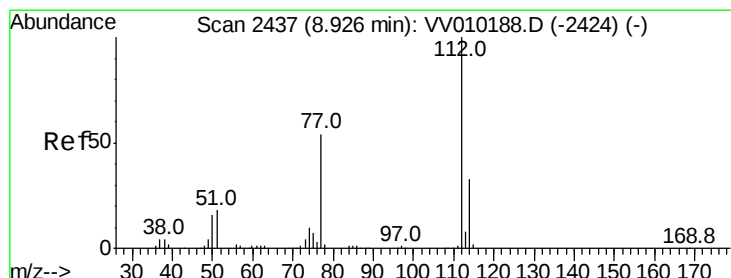
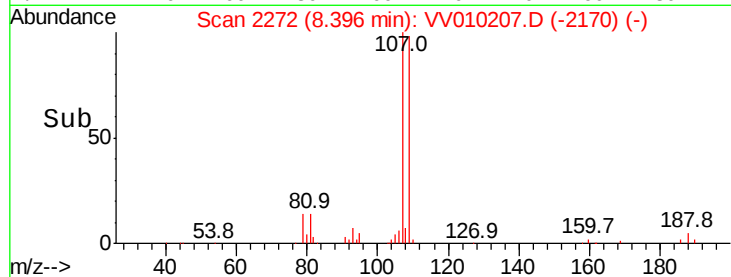
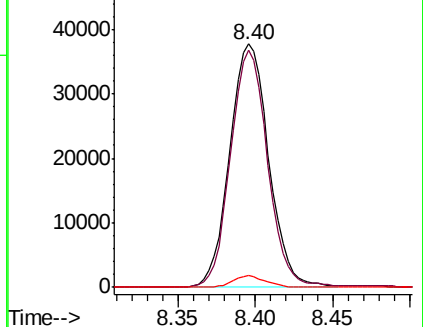
188 4.7 3.3 4.9



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: 25.400 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

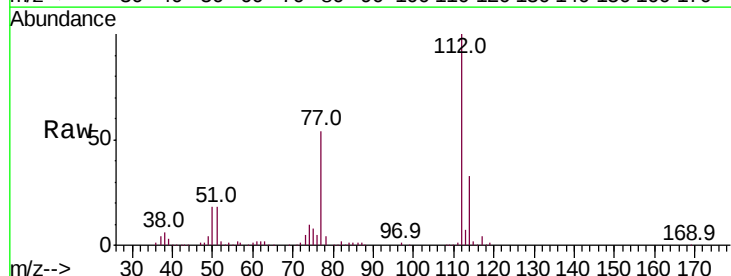
Tgt Ion:112 Resp: 191861

Ion Ratio Lower Upper

112 100

77 53.7 42.9 64.3

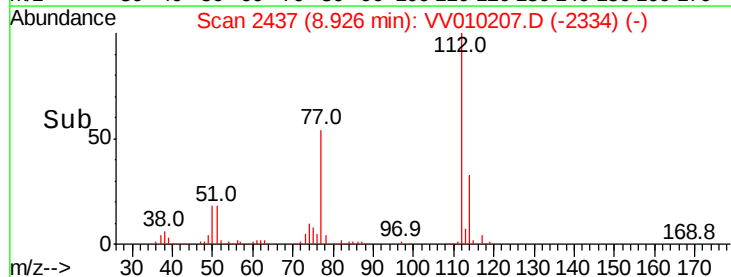
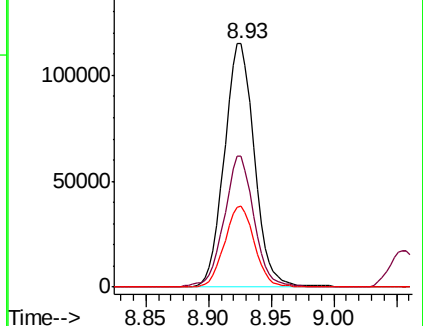
114 33.1 23.4 43.4

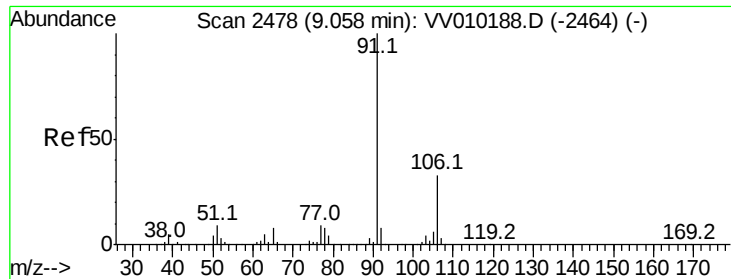


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

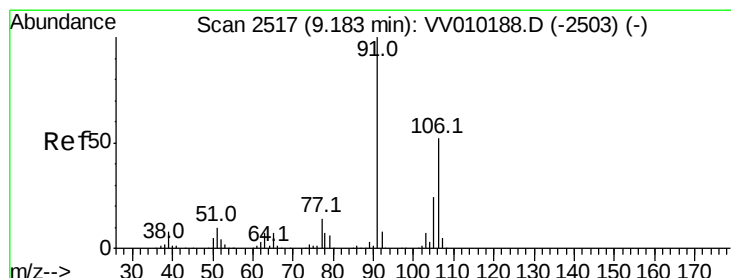
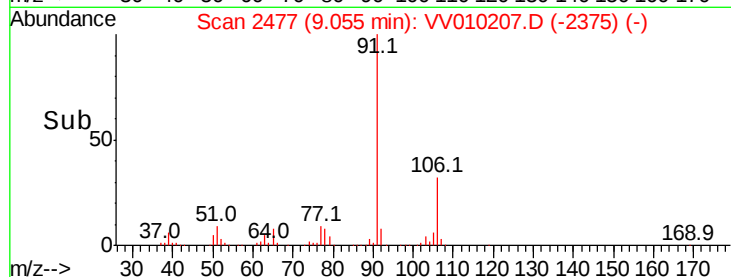
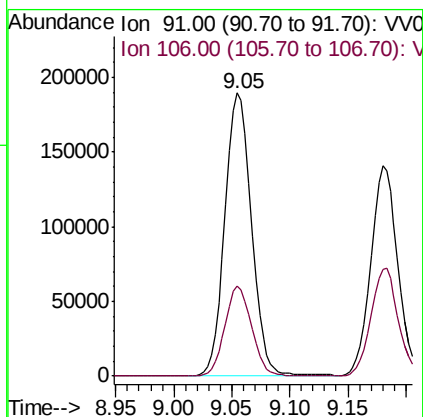
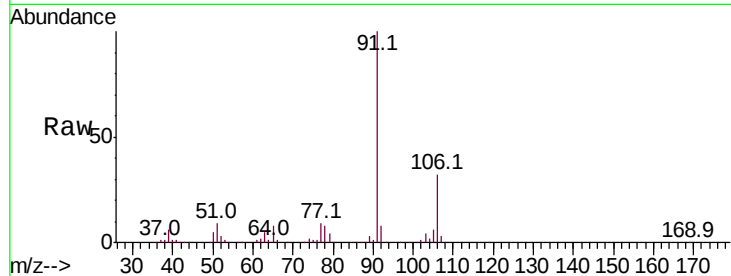




#53
Ethylbenzene
Concen: 24.819 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

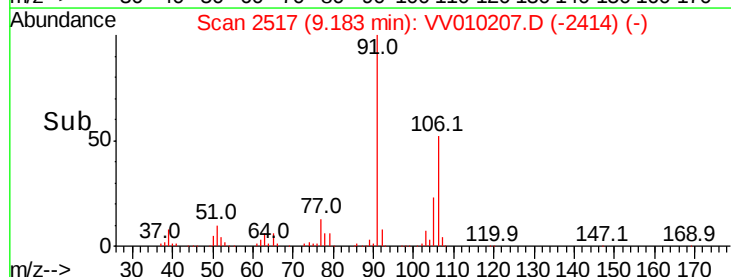
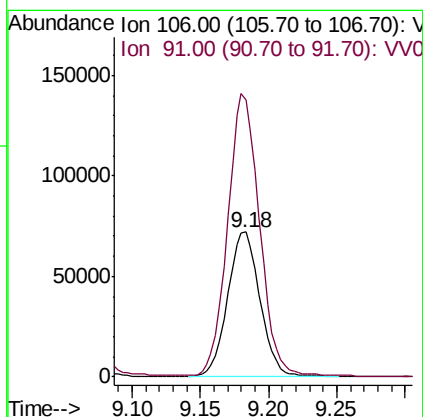
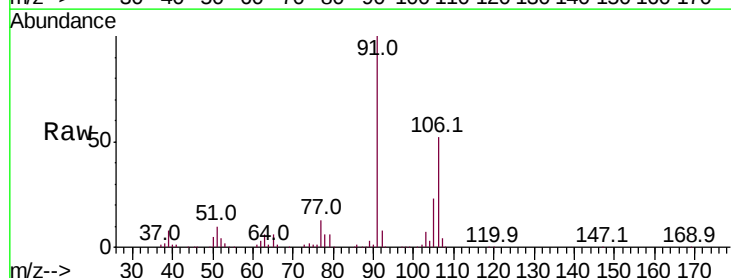
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

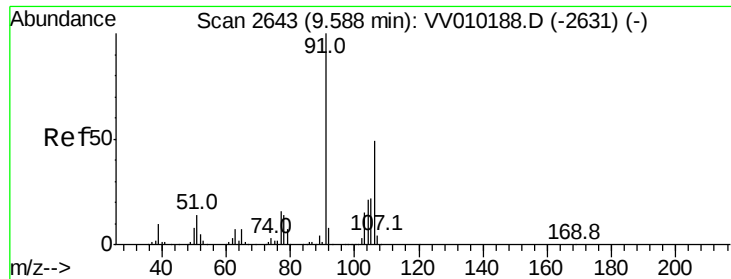
Tot Ion: 91 Resp: 301394
Ion Ratio Lower Upper
91 100
106 32.0 23.1 42.9



#54
m,p-Xylene
Concen: 25.305 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV010207.D
Acq: 09 Apr 2019 06:46

Tgt Ion:106 Resp: 119602
Ion Ratio Lower Upper
106 100
91 191.6 139.3 258.7





#55

o-xylene

Concen: 24.967 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

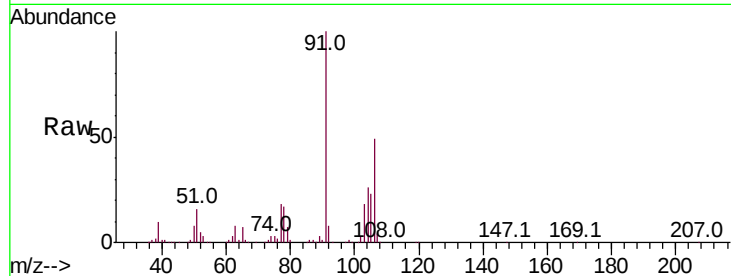
VSTD02587

Tot Ion:106 Resp: 114325

Ion Ratio Lower Upper

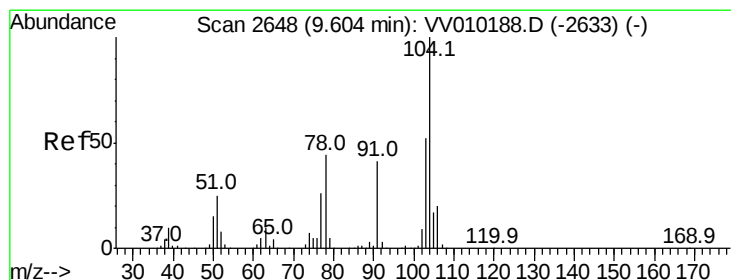
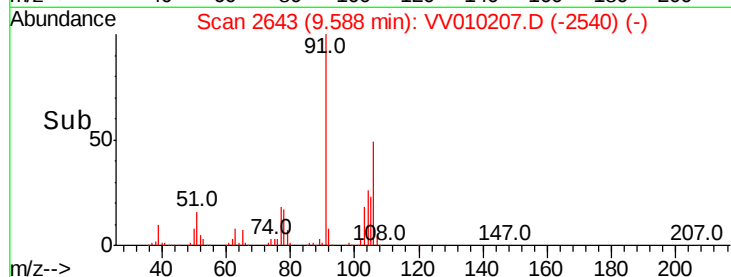
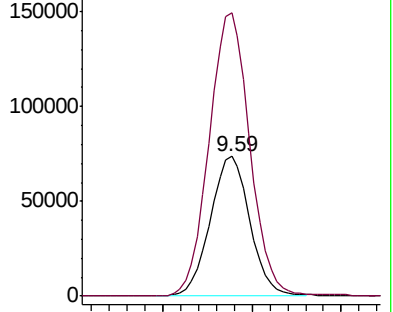
106 100

91 202.3 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 25.292 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010207.D

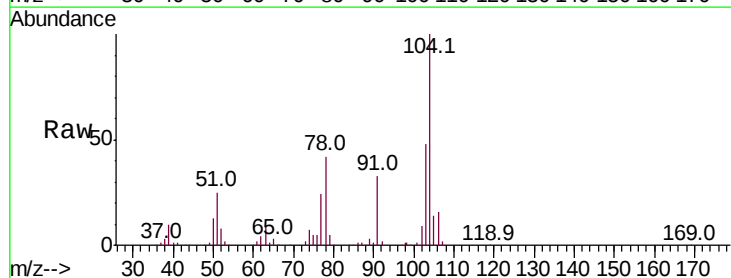
Acq: 09 Apr 2019 06:46

Tgt Ion:104 Resp: 191581

Ion Ratio Lower Upper

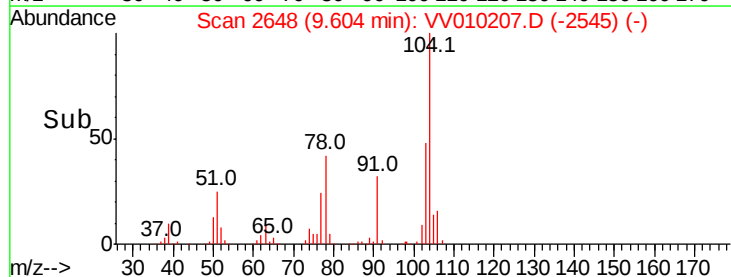
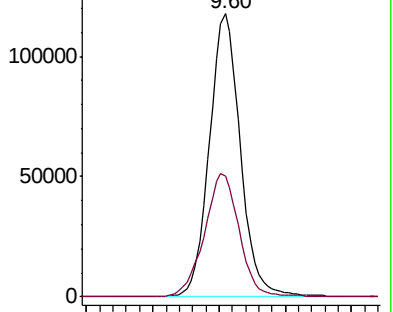
104 100

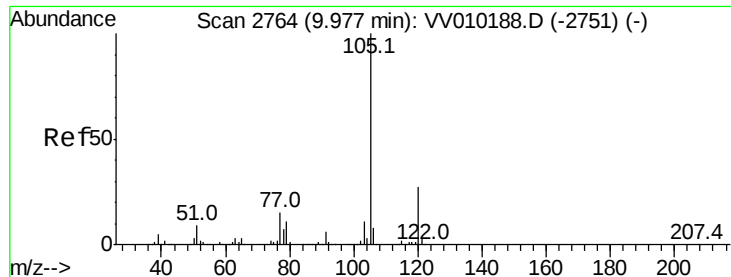
78 42.5 30.5 56.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.739 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

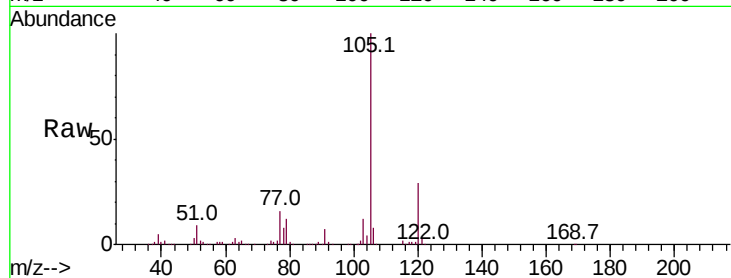
Tot Ion:105 Resp: 298756

Ion Ratio Lower Upper

105 100

120 28.4 21.5 32.3

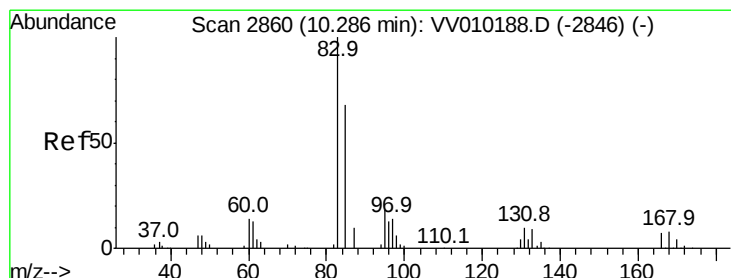
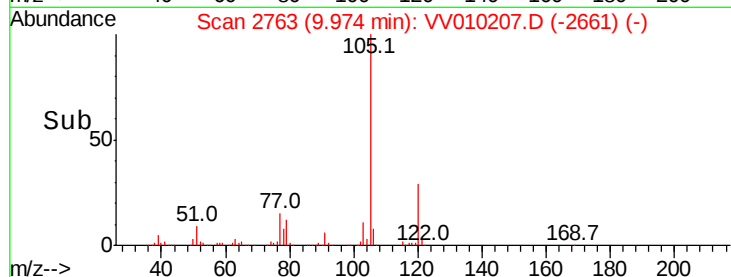
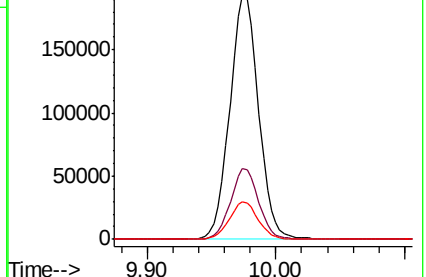
77 15.2 12.4 18.6



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: 29.183 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

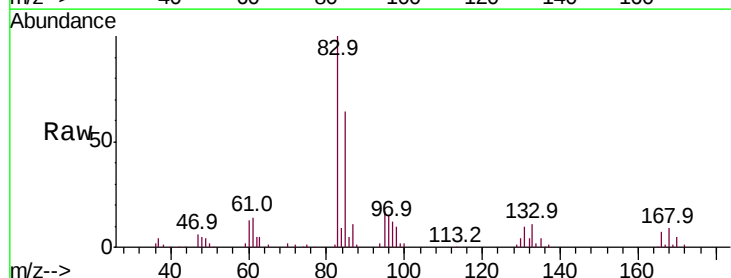
Tgt Ion: 83 Resp: 82859

Ion Ratio Lower Upper

83 100

85 63.6 46.1 85.7

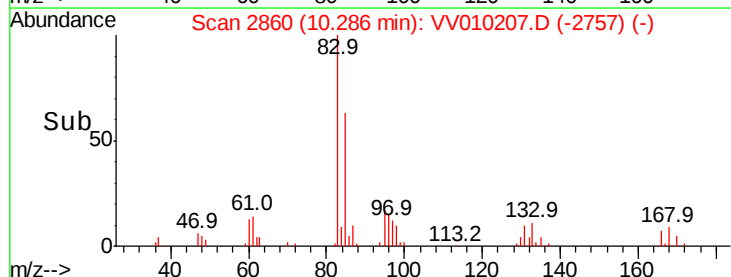
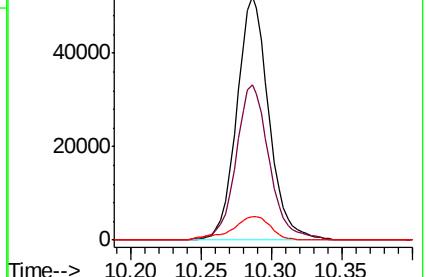
131 9.9 9.0 13.4

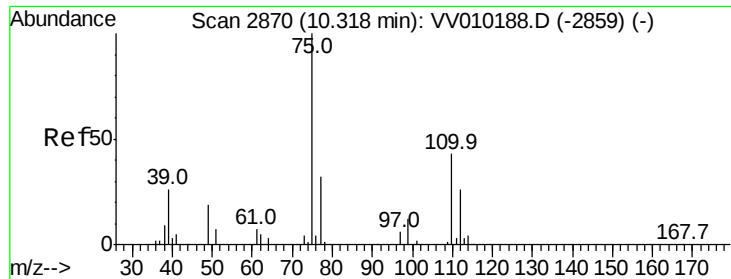


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

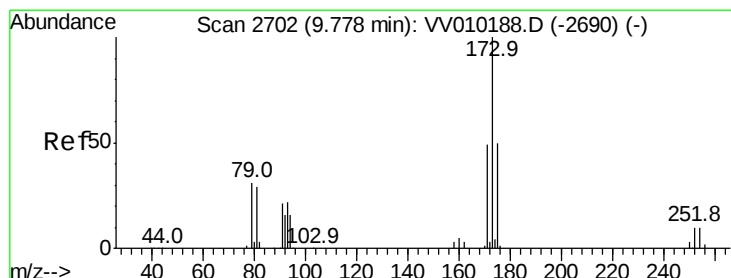
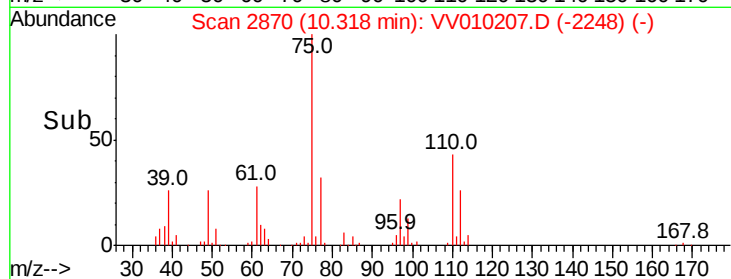
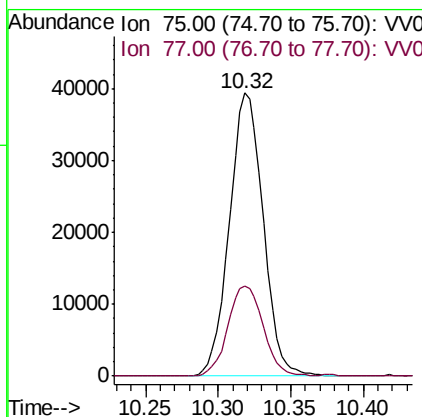
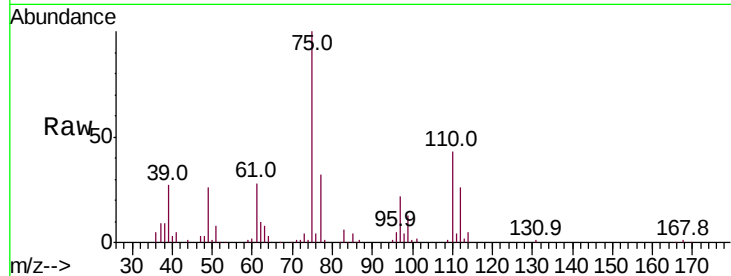




#59
 1,2,3-Trichloropropane
 Concen: 31.270 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

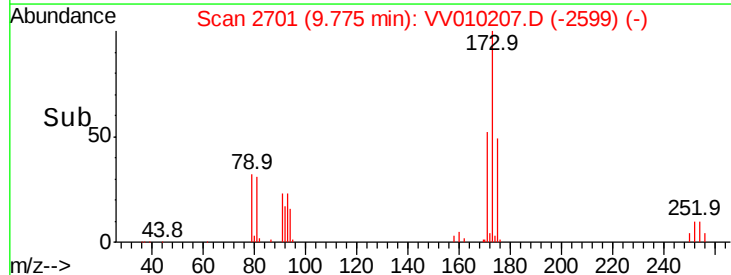
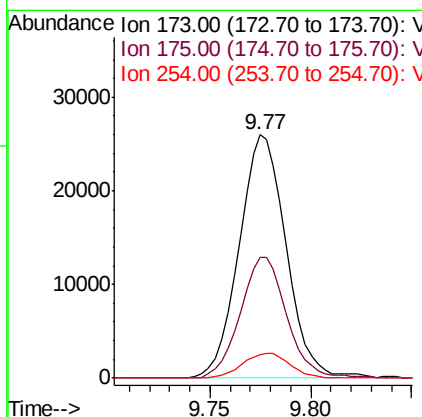
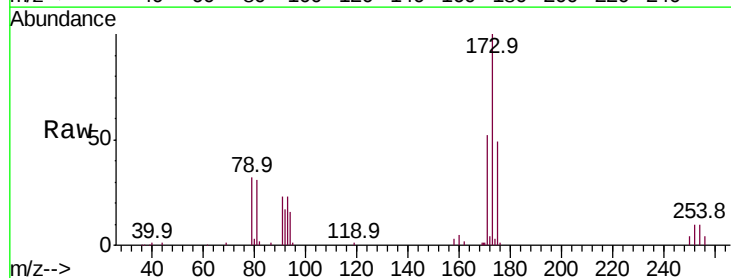
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

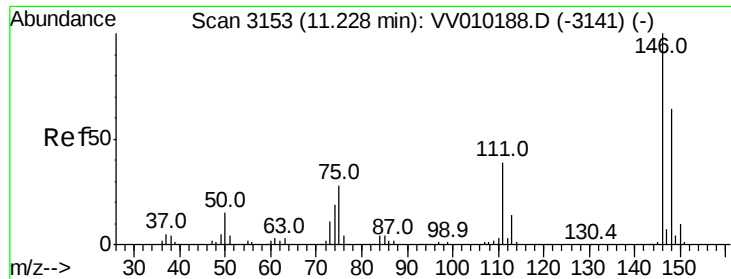
Tot Ion: 75 Resp: 63666
 Ion Ratio Lower Upper
 75 100
 77 33.3 25.8 38.8



#62
 Bromoform
 Concen: 29.730 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion:173 Resp: 42018
 Ion Ratio Lower Upper
 173 100
 175 49.4 38.7 58.1
 254 10.3 6.7 10.1#

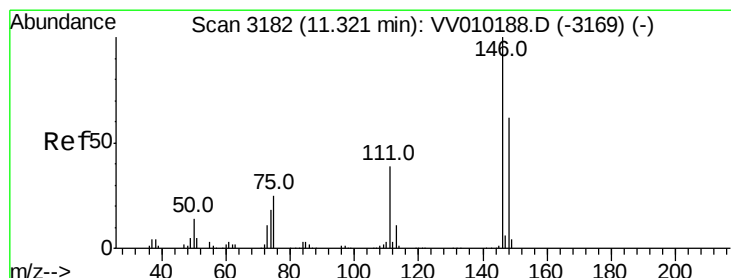
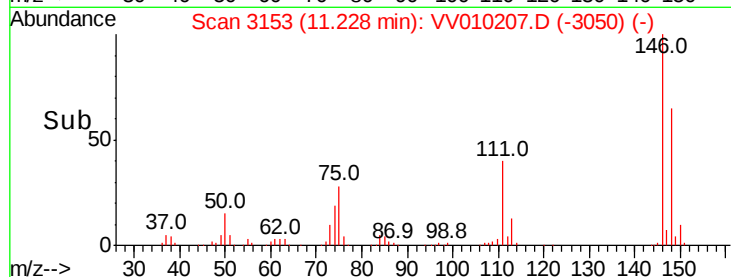
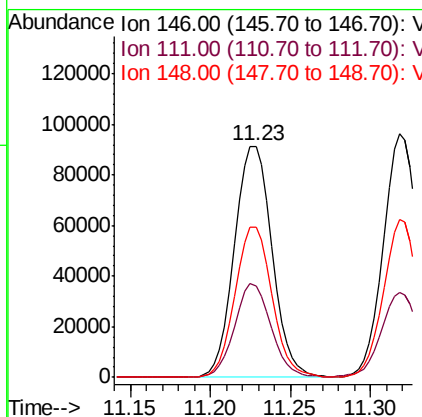
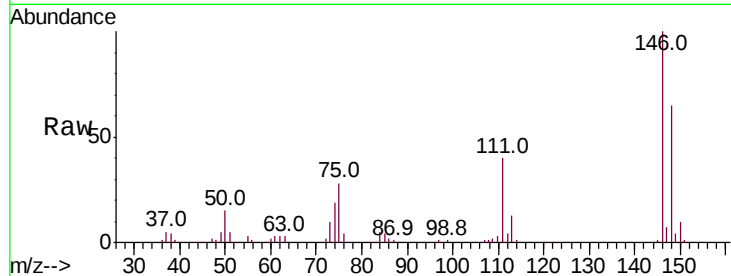




#63
 1,3-Dichlorobenzene
 Concen: 24.886 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

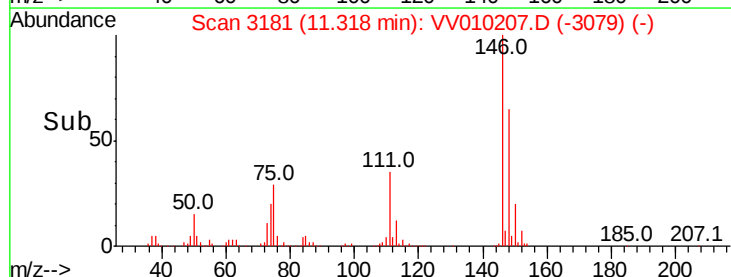
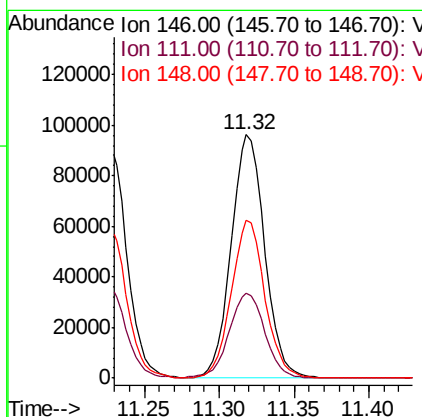
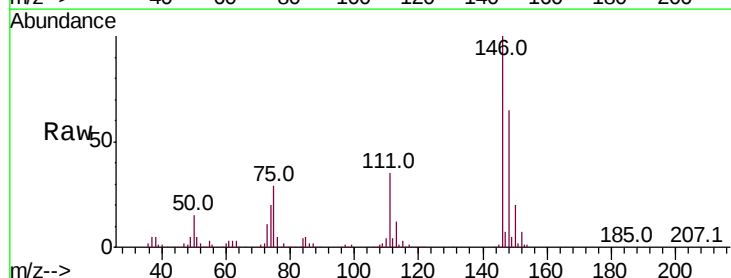
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

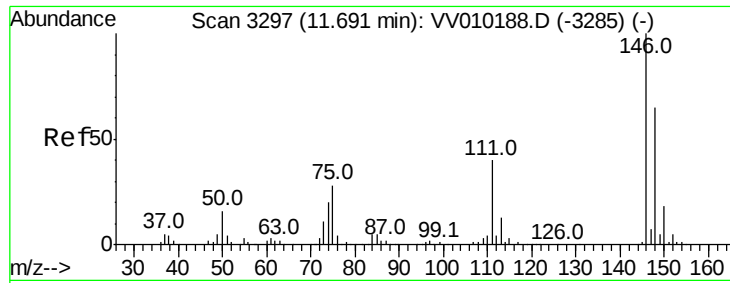
Tot Ion:146 Resp: 146780
 Ion Ratio Lower Upper
 146 100
 111 39.7 26.8 49.8
 148 65.2 42.7 79.3



#64
 1,4-Dichlorobenzene
 Concen: 24.455 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion:146 Resp: 150247
 Ion Ratio Lower Upper
 146 100
 111 35.1 26.9 50.1
 148 65.1 45.6 84.6

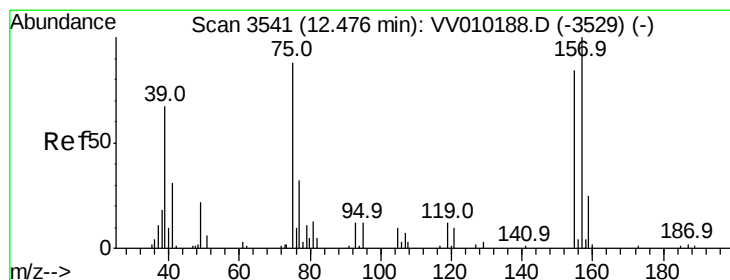
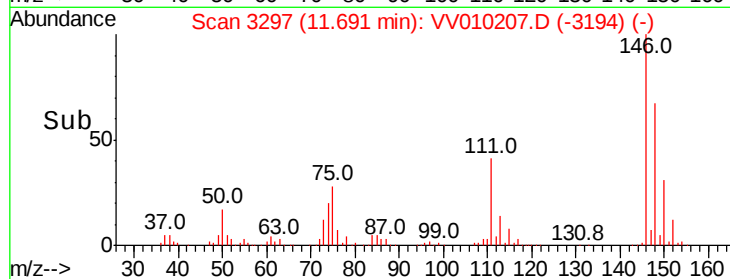
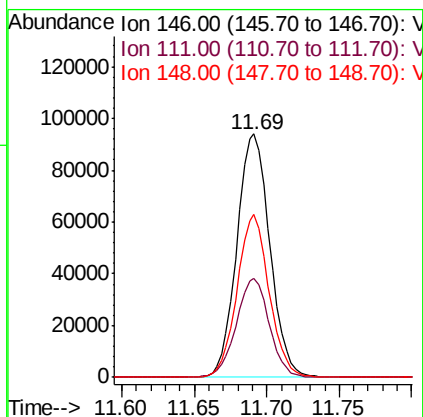
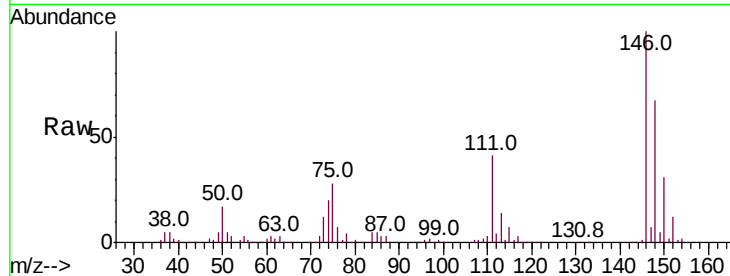




#65
 1,2-Dichlorobenzene
 Concen: 25.644 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

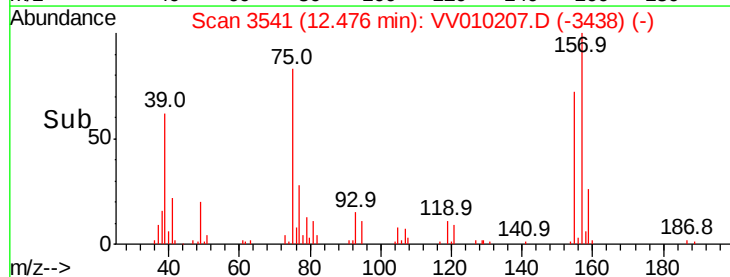
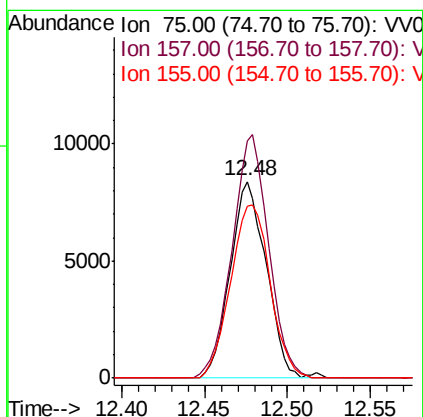
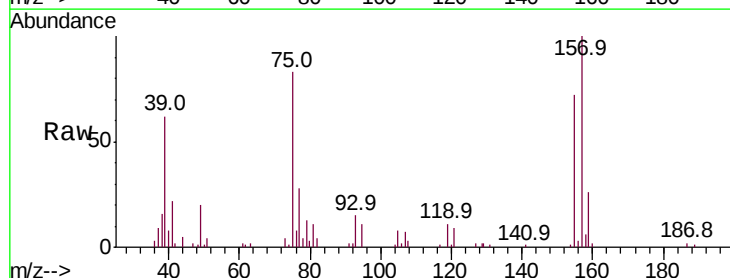
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

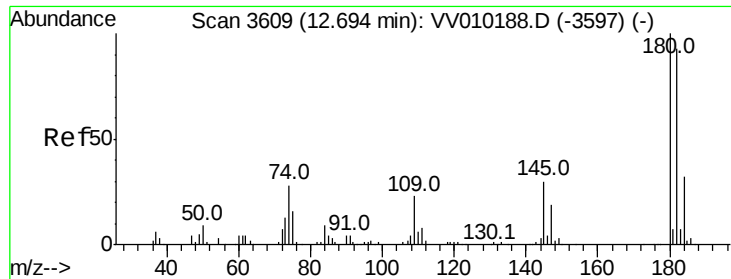
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	33.2	49.8
148	66.7	51.4	77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 32.474 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion	Ratio	Lower	Upper
75	100		
157	120.6	83.0	124.6
155	87.4	68.1	102.1

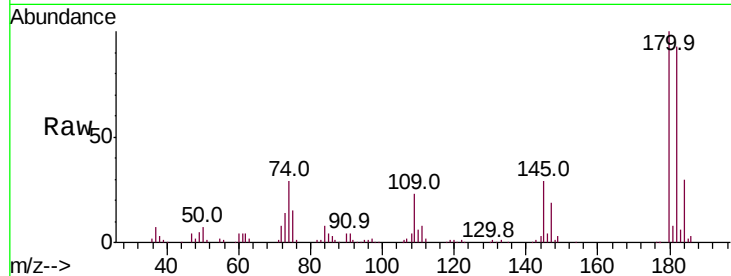




#67
 1,3,5-Trichlorobenzene
 Concen: 24.378 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tot Ion:	180	Resp:	106775
Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.2	115.8
184	30.2	23.8	35.6
145	29.5	24.6	36.8



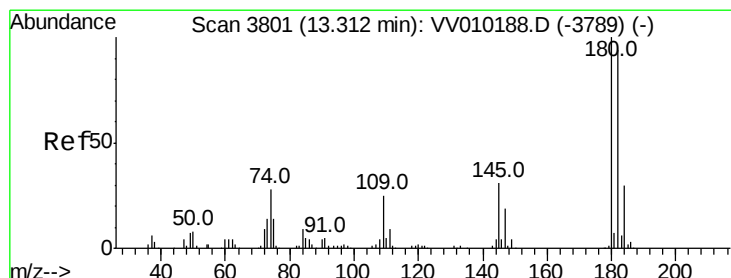
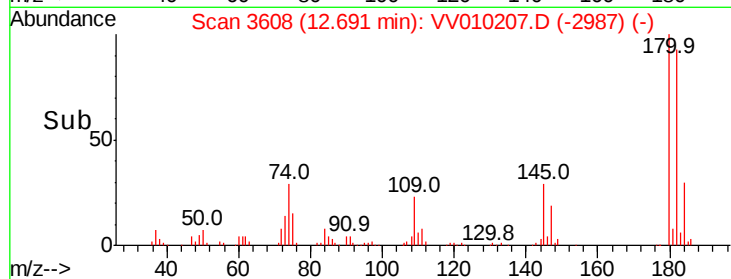
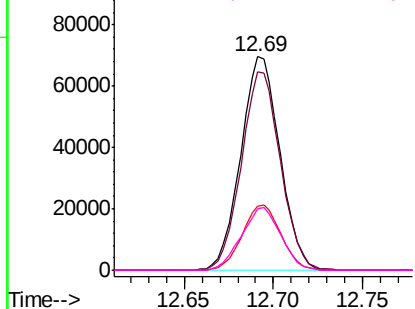
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

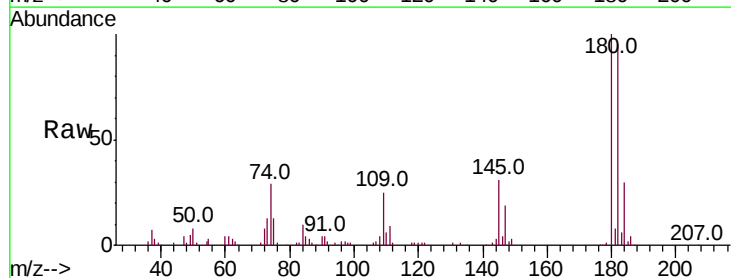
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.563 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010207.D
 Acq: 09 Apr 2019 06:46

Tgt Ion:	180	Resp:	85739
Ion	Ratio	Lower	Upper
180	100		
182	92.4	75.7	113.5
145	30.4	24.6	37.0

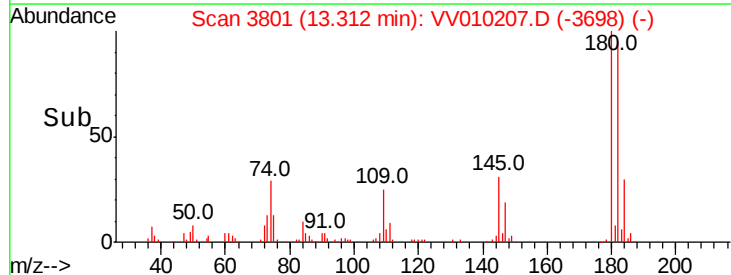
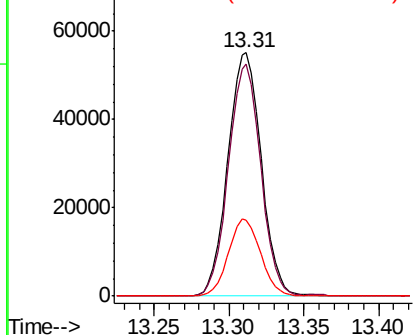


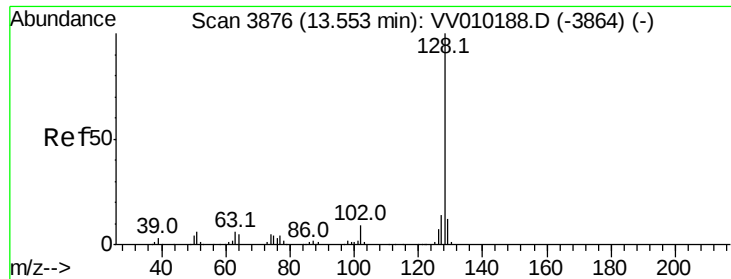
Abundance

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: 31.241 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

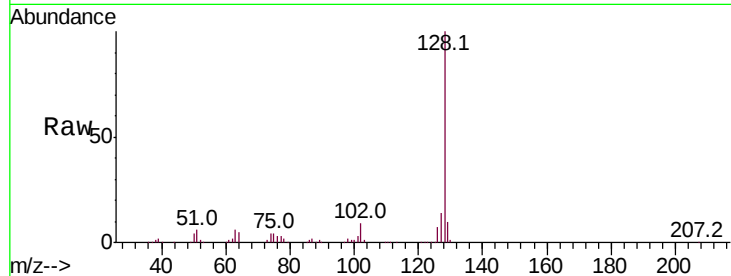
Tot Ion:128 Resp: 174328

Ion Ratio Lower Upper

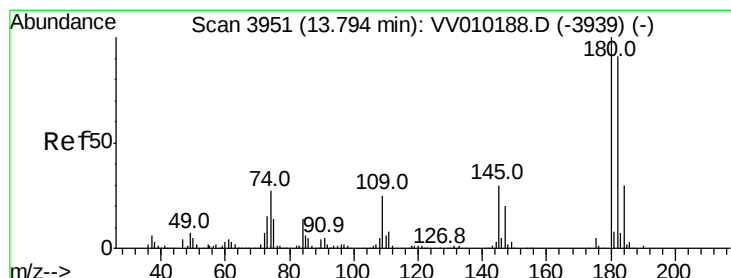
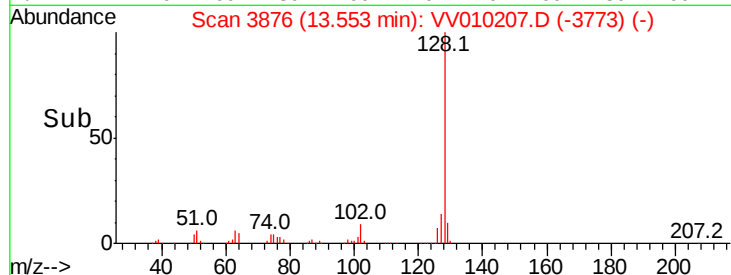
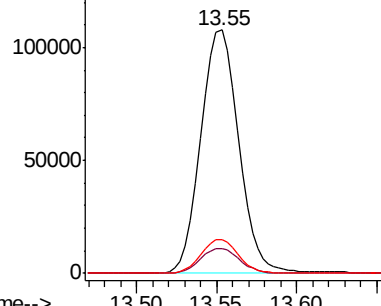
128 100

129 10.4 9.0 13.4

127 13.7 11.0 16.4



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: 27.975 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010207.D

Acq: 09 Apr 2019 06:46

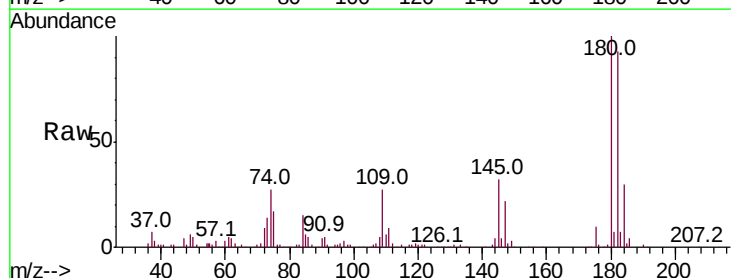
Tgt Ion:180 Resp: 87600

Ion Ratio Lower Upper

180 100

182 93.2 74.1 111.1

145 33.4 25.8 38.8



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

