

Data File : VV014591.D
Acq On : 17 Feb 2020 12:50
Operator : SY/MD
Sample : VSTD20065
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

Quant Time: Feb 18 05:49:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM021720W.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 18 05:45:10 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	292328	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	280592	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	146124	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	204168	141.05	ug/L	0.00
7) Chloroethane-d5	1.57	69	151493	149.21	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	361598	159.38	ug/L	0.00
21) 2-Butanone-d5	3.92	46	421869	365.27	ug/L	0.00
24) Chloroform-d	4.40	84	682309	194.79	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	427646	198.64	ug/L	0.00
32) Benzene-d6	5.10	84	1309826	176.32	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	394181	173.98	ug/L	0.00
41) Toluene-d8	7.36	98	1250140	181.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	235968	192.37	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	352282	368.77	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.25	84	561568	187.86	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	502197	184.00	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	398206	176.140	ug/L	99
3) Chloromethane	1.25	50	318027	144.399	ug/L	98
5) Vinyl chloride	1.33	62	256367	151.215	ug/L	98
6) Bromomethane	1.52	94	135171	168.522	ug/L	97
8) Chloroethane	1.59	64	126673	149.928	ug/L	97
9) Trichlorofluoromethane	1.77	101	461107	191.599	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	188790	167.526	ug/L	98
12) 1,1-Dichloroethene	2.14	96	173609	161.142	ug/L	92
13) Acetone	2.18	43	277287	280.718	ug/L	99
14) Carbon disulfide	2.32	76	838994	162.123	ug/L	99
15) Methyl Acetate	2.45	43	315581	169.382	ug/L	98
16) Methylene chloride	2.53	84	363956	175.226	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	338896	176.422	ug/L	100
18) Methyl tert-butyl Ether	2.80	73	1147387	187.172	ug/L	99
19) 1,1-Dichloroethane	3.23	63	611724	178.092	ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	403812	186.087	ug/L	98
22) 2-Butanone	4.00	43	519441	358.918	ug/L	98
23) Bromochloromethane	4.29	128	203777	196.279	ug/L	97
25) Chloroform	4.42	83	679907	191.640	ug/L	100
27) 1,2-Dichloroethane	5.17	62	529613	200.570	ug/L	99
29) Cyclohexane	4.72	56	525408	160.655	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	626523	197.979	ug/L	99
31) Carbon tetrachloride	4.87	117	565801	201.620	ug/L	99
33) Benzene	5.14	78	1408028	176.351	ug/L	100
34) Trichloroethene	5.96	95	389646	182.700	ug/L	99
35) Methylcyclohexane	6.17	83	593067	171.907	ug/L	99
37) 1,2-Dichloropropane	6.22	63	351130	173.590	ug/L	100
38) Bromodichloromethane	6.55	83	546295	196.931	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	658333	192.292	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	904891	349.175	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1547440	179.448	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	595067	193.792	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	370825	187.343	ug/L	98
46) Tetrachloroethene	8.02	164	306616	188.202	ug/L	98
48) 2-Hexanone	8.18	43	727480	366.623	ug/L	99
49) Dibromochloromethane	8.29	129	465196	205.546	ug/L	100
50) 1,2-Dibromoethane	8.39	107	411706	192.314	ug/L	100
51) Chlorobenzene	8.92	112	1041113	183.815	ug/L	99
52) Ethylbenzene	9.05	91	1775988	183.325	ug/L	100
53) m,p-Xylene	9.18	106	686276	183.688	ug/L	99
54) o-Xylene	9.58	106	653837	182.611	ug/L	99
55) Styrene	9.60	104	1137075	186.127	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	591602	191.127	ug/L	99
59) Bromoform	9.77	173	336092	207.196	ug/L	99
60) Isopropylbenzene	9.97	105	1761527	181.097	ug/L	100
61) 1,2,3-Trichloropropane	10.31	75	473238	185.857	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	1557628	187.415	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	1535675	187.665	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	855930	186.339	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	868964	184.077	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	826899	184.845	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.47	75	149588	208.138	ug/L	98
69) 1,3,5-Trichlorobenzene	12.69	180	631622	194.436	ug/L	99
70) 1,2,4-trichlorobenzene	13.30	180	597421	200.922	ug/L	99
71) Naphthalene	13.54	128	1912850	196.439	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	575987	198.804	ug/L	100

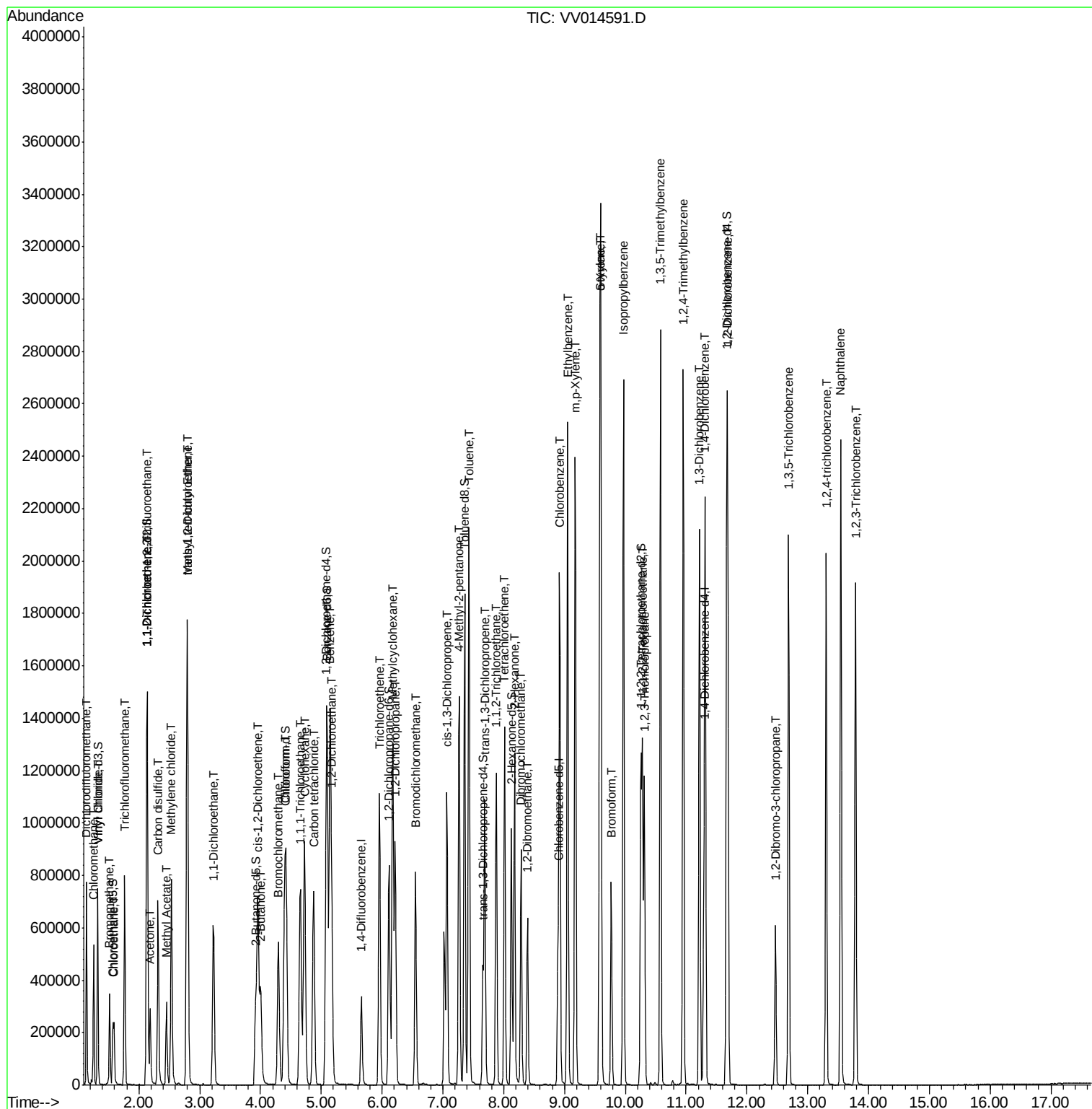
(#) = qualifier out of range (m) = manual integration (+) = signals summed

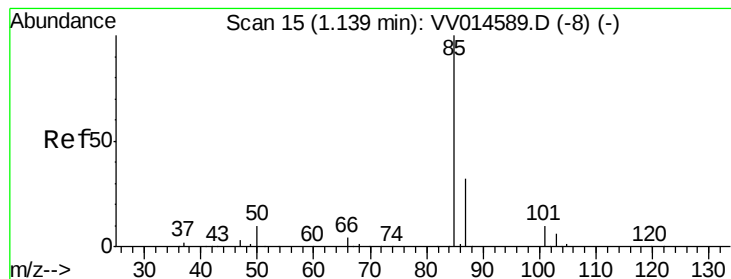
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#2

Dichlorodifluoromethane

Concen: 176.140 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

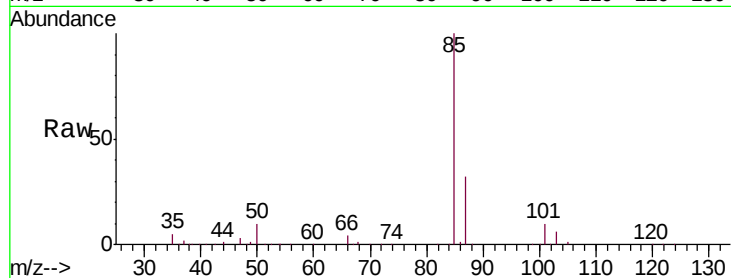
VSTD200206

Tgt Ion: 85 Resp: 398206

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV014589.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014589.D (-8) (-)

1.14

400000

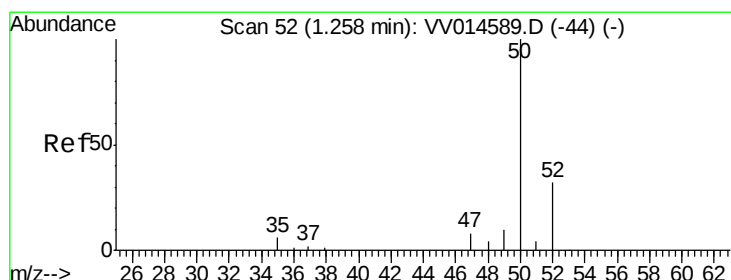
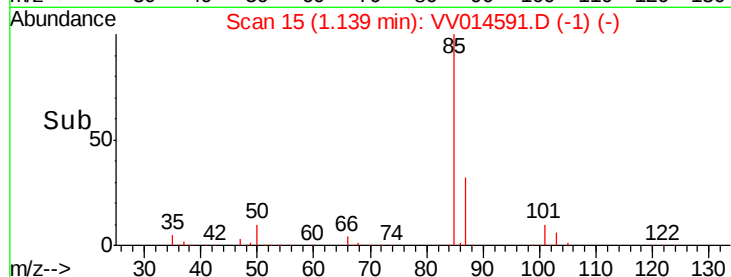
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 144.399 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014591.D

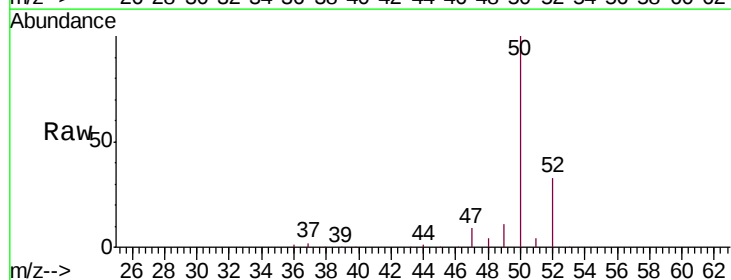
Acq: 17 Feb 2020 12:50

Tgt Ion: 50 Resp: 318027

Ion Ratio Lower Upper

50 100

52 33.4 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VV014589.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014589.D (-44) (-)

1.25

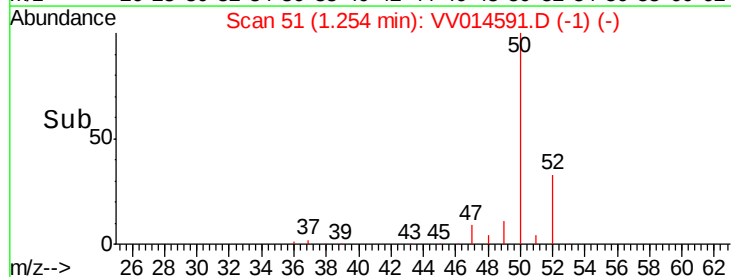
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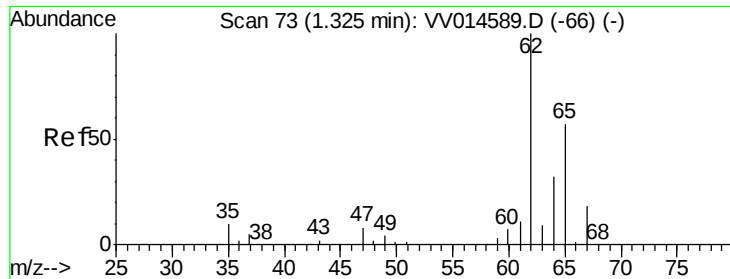
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 151.215 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

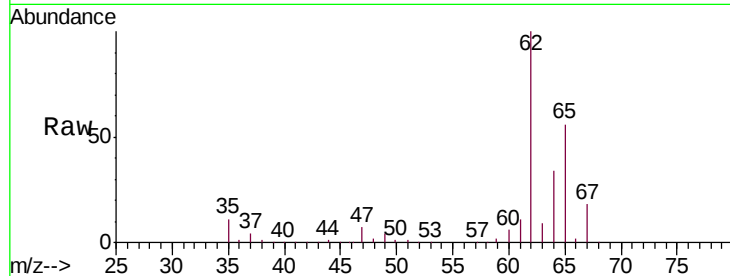
VSTD200206

Tgt Ion: 62 Resp: 256367

Ion Ratio Lower Upper

62 100

64 33.5 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.33

250000

200000

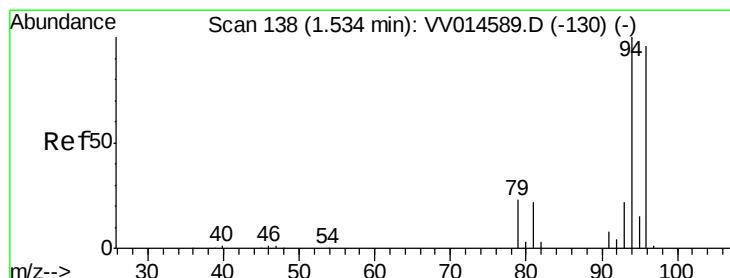
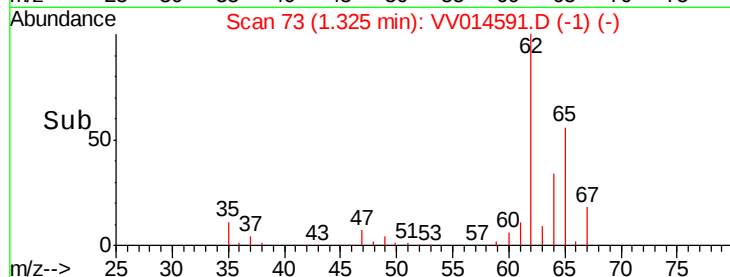
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 168.522 ug/L

RT: 1.52 min Scan# 133

Delta R.T. -0.02 min

Lab File: VV014591.D

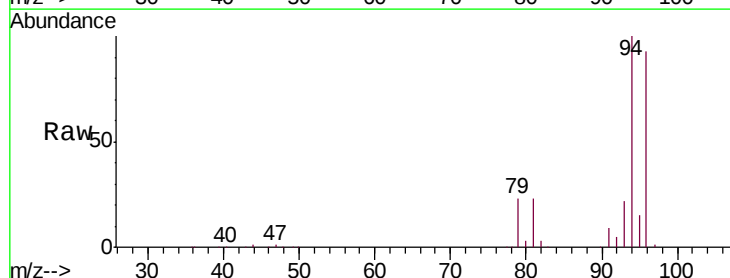
Acq: 17 Feb 2020 12:50

Tgt Ion: 94 Resp: 135171

Ion Ratio Lower Upper

94 100

96 93.4 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

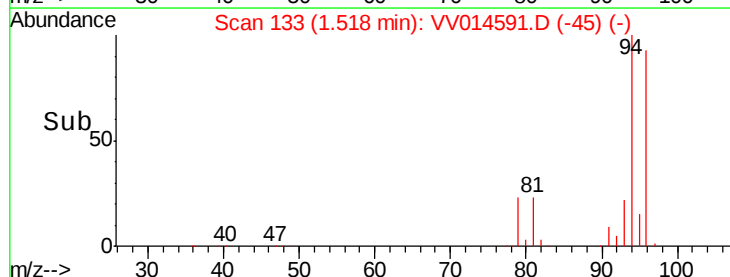
1.52

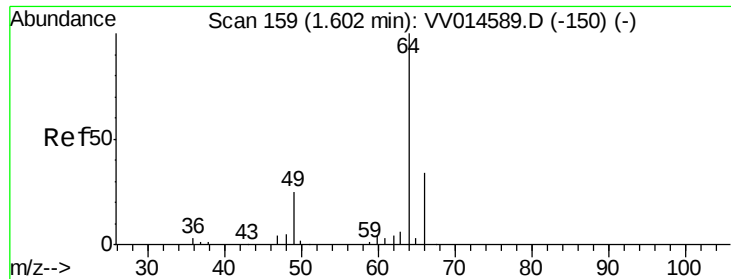
100000

50000

0

Time-->





#8

Chloroethane

Concen: 149.928 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

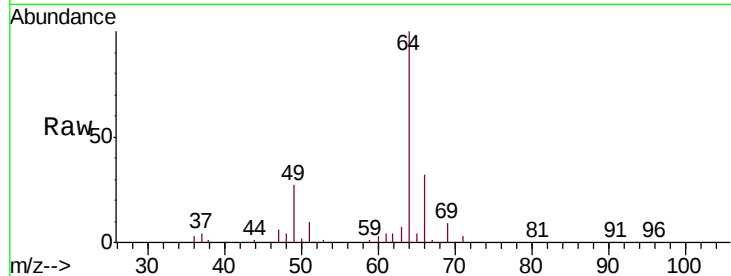
VSTD200206

Tgt Ion: 64 Resp: 126673

Ion Ratio Lower Upper

64 100

66 31.7 23.6 43.8



Abundance Ion 64.00 (63.70 to 64.70): VV014589.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014589.D (-150) (-)

1.59

100000

80000

60000

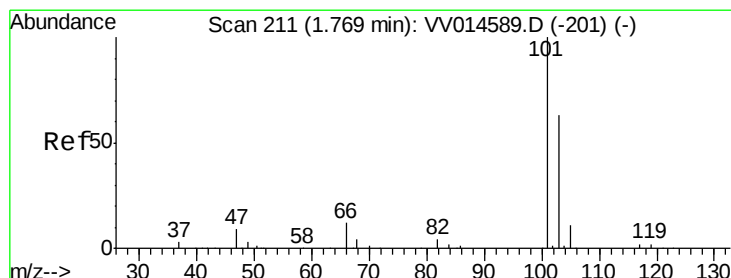
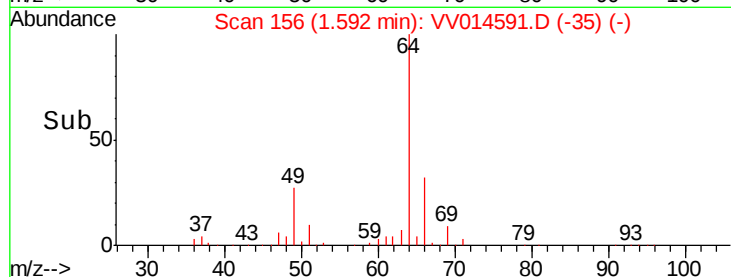
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 191.599 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV014591.D

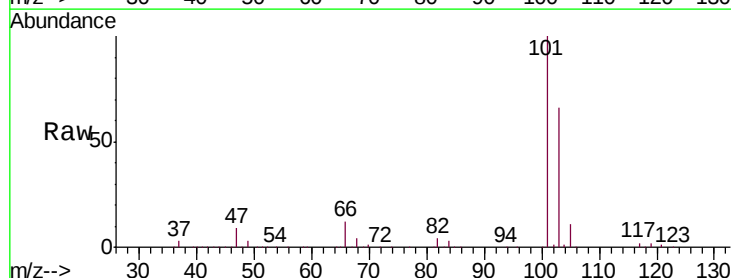
Acq: 17 Feb 2020 12:50

Tgt Ion: 101 Resp: 461107

Ion Ratio Lower Upper

101 100

103 65.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VV014589.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014589.D (-201) (-)

1.77

400000

300000

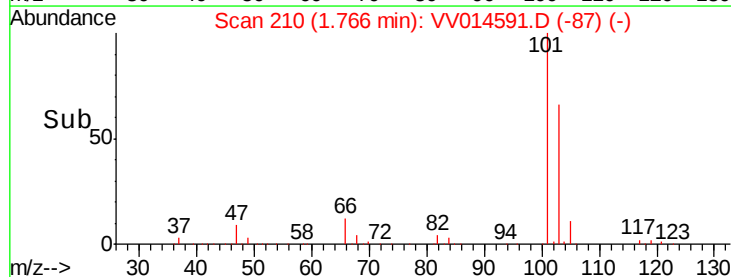
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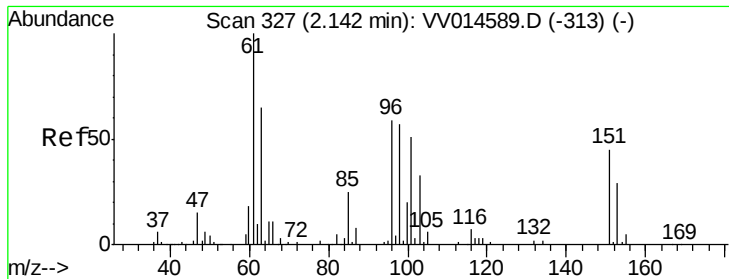
100000

0

1.70 1.75 1.80 1.85 1.90

Time-->





#10

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

Concen: 167.526 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

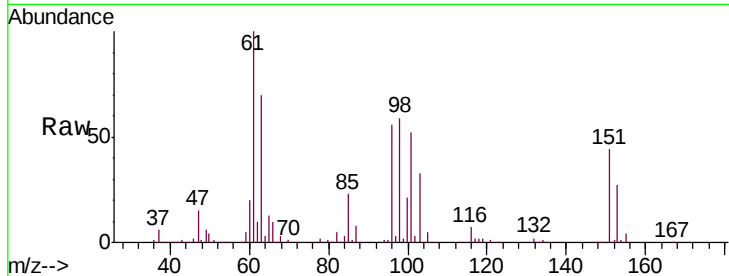
Tgt Ion: 101 Resp: 188790

Ion Ratio Lower Upper

101 100

85 44.8 37.9 56.9

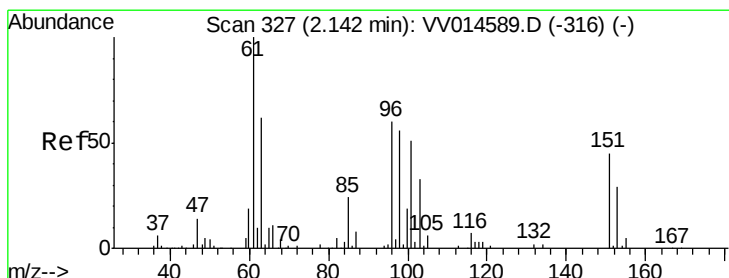
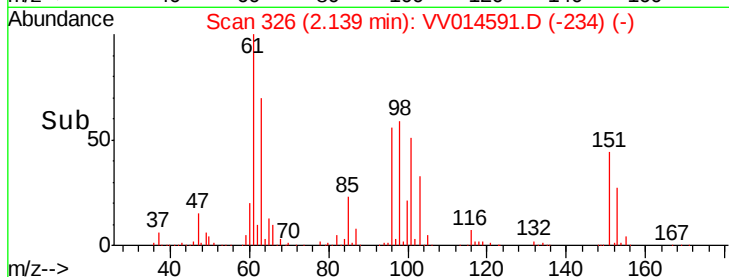
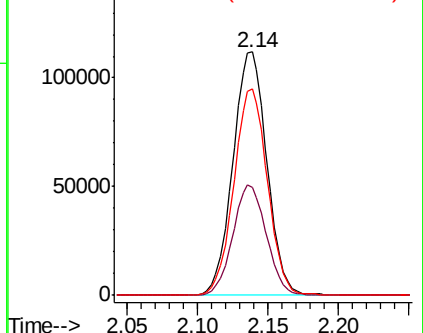
151 84.0 67.7 101.5



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: 161.142 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

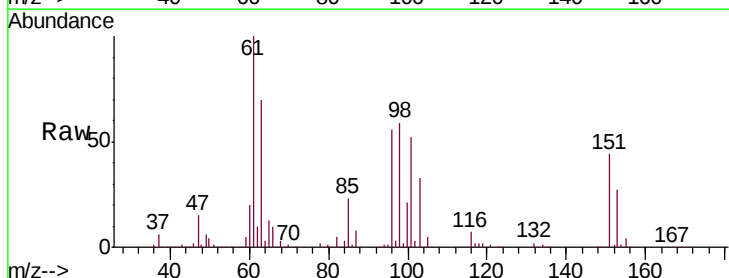
Tgt Ion: 96 Resp: 173609

Ion Ratio Lower Upper

96 100

61 177.2 118.3 219.7

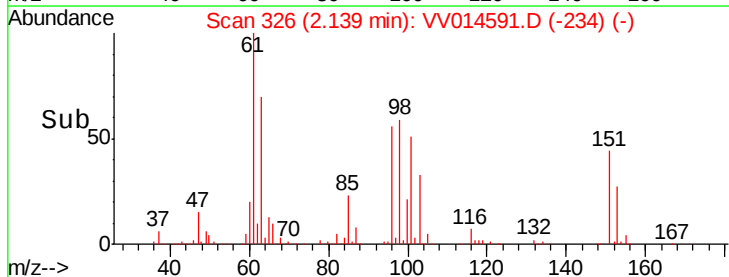
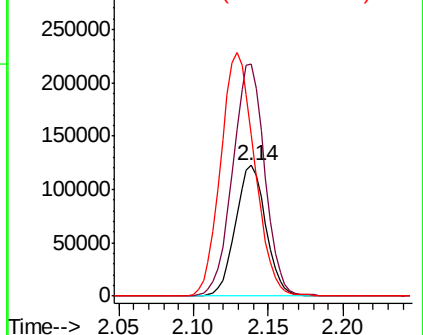
63 123.4 77.5 143.9

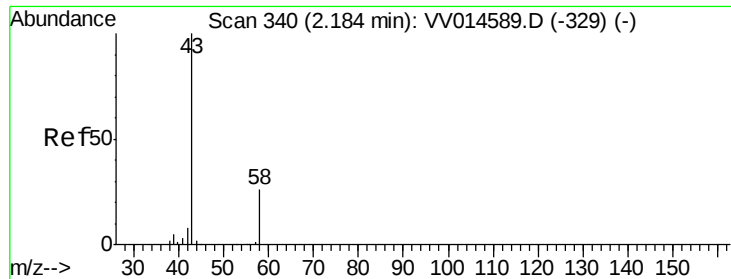


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 280.718 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

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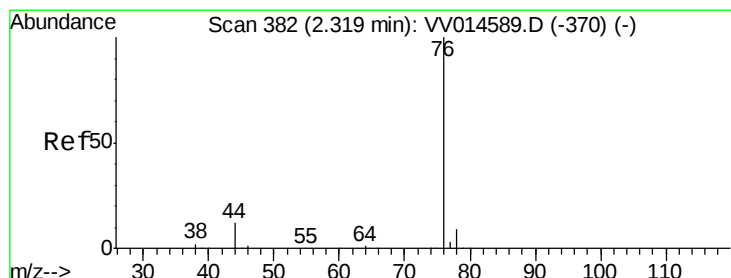
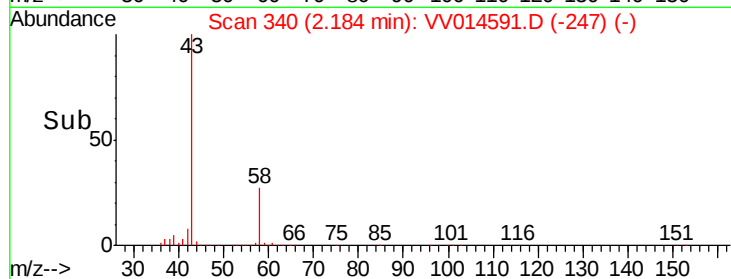
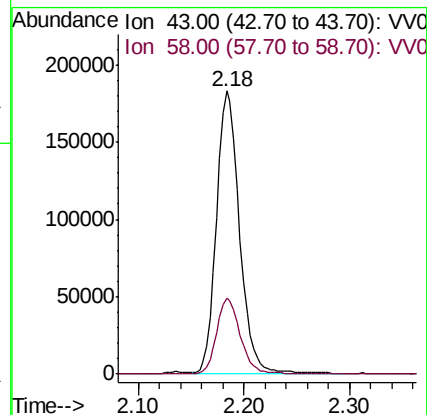
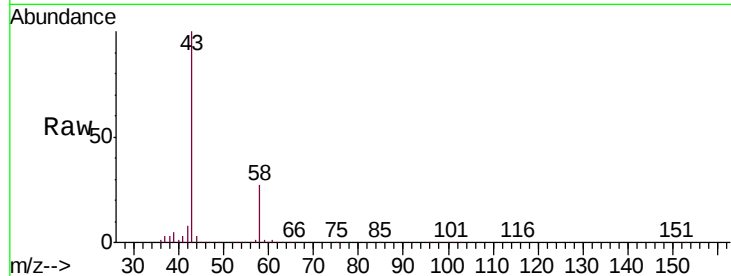
VSTD200206

Tgt Ion: 43 Resp: 277287

Ion Ratio Lower Upper

43 100

58 27.4 0.0 55.8



#14

Carbon disulfide

Concen: 162.123 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV014591.D

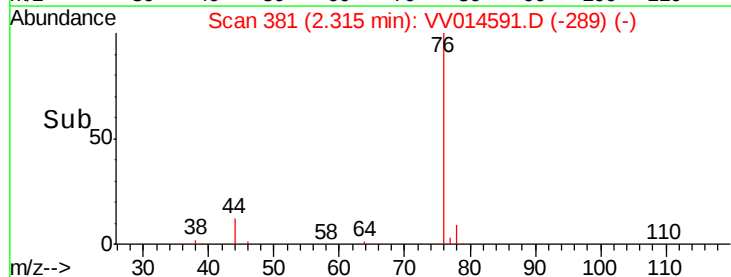
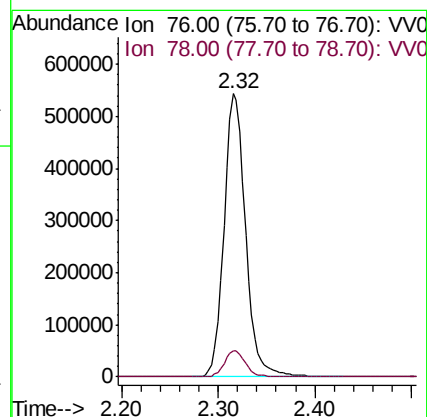
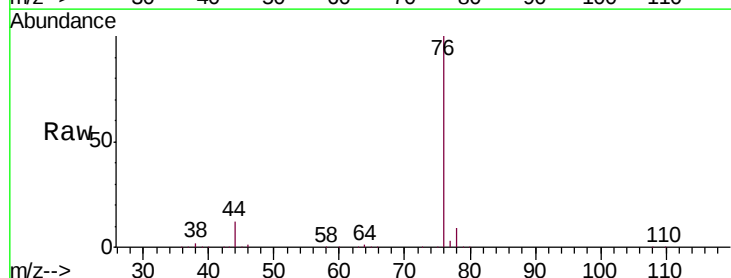
Acq: 17 Feb 2020 12:50

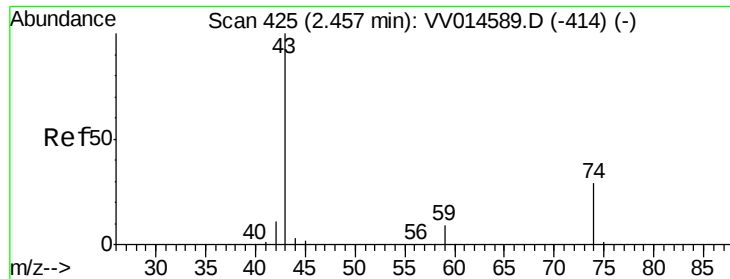
Tgt Ion: 76 Resp: 838994

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3

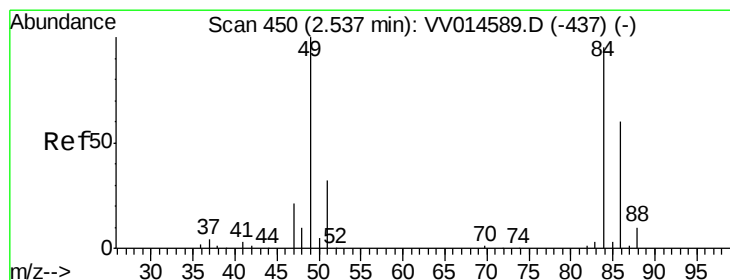
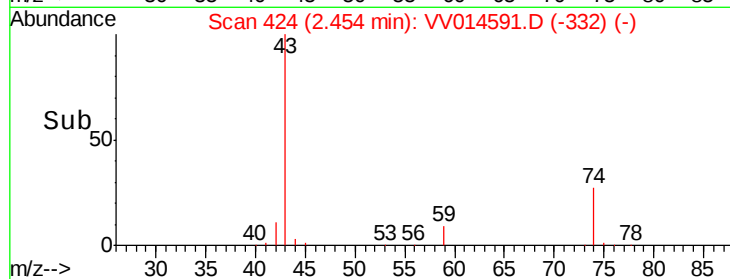
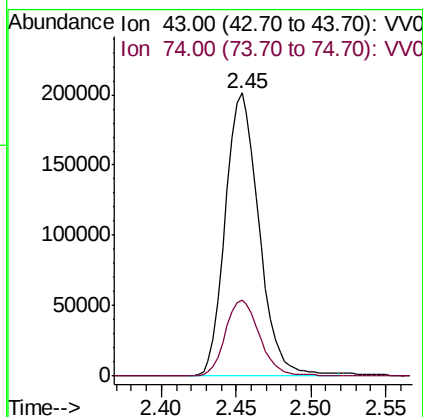
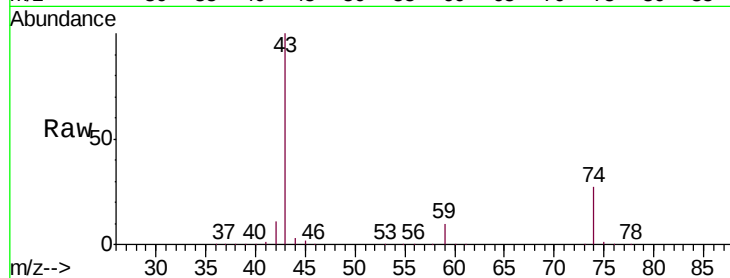




#15
Methyl Acetate
Concen: 169.382 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

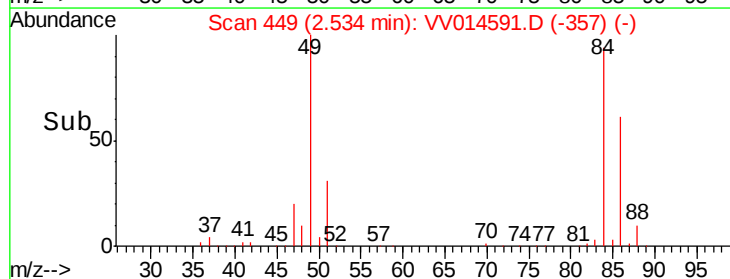
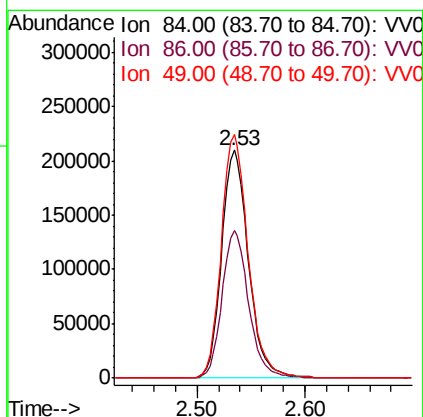
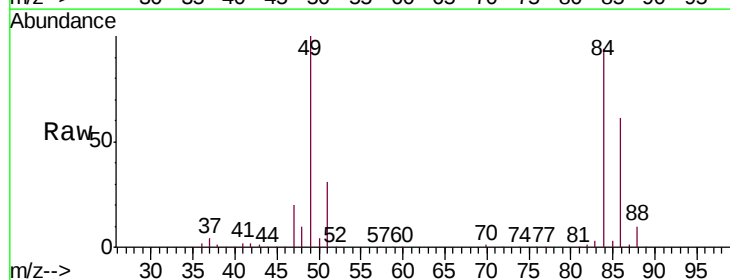
Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

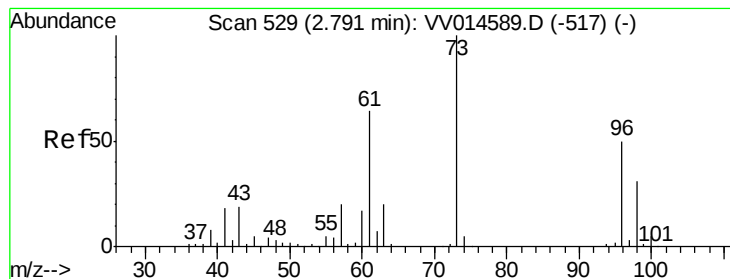
Tgt Ion: 43 Resp: 315581
Ion Ratio Lower Upper
43 100
74 27.5 22.9 34.3



#16
Methylene chloride
Concen: 175.226 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Tgt Ion: 84 Resp: 363956
Ion Ratio Lower Upper
84 100
86 65.0 44.0 81.8
49 106.9 74.0 137.4





#17

trans-1,2-Dichloroethene

Concen: 176.422 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

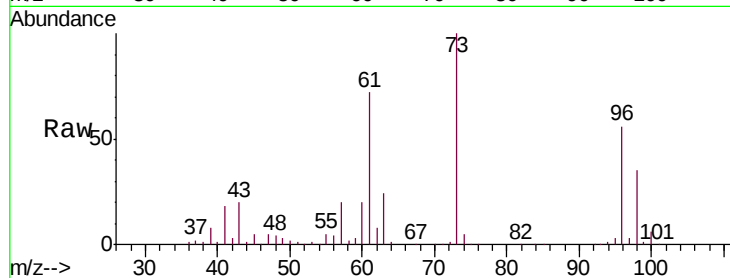
Tgt Ion: 96 Resp: 338896

Ion Ratio Lower Upper

96 100

61 130.1 90.6 168.3

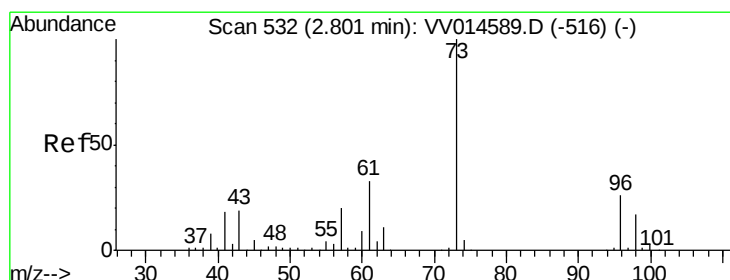
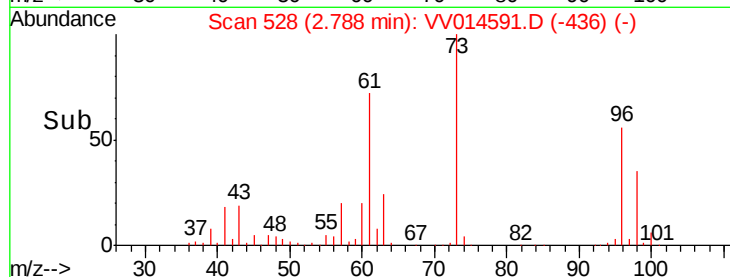
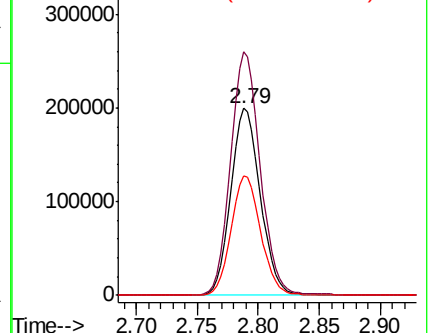
98 63.5 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VV014589.D (-517) (-)

Ion 61.00 (60.70 to 61.70): VV014589.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV014589.D (-517) (-)



#18

Methyl tert-butyl Ether

Concen: 187.172 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

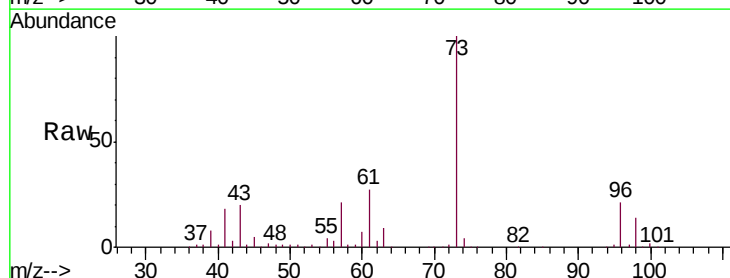
Tgt Ion: 73 Resp: 1147387

Ion Ratio Lower Upper

73 100

43 19.2 14.7 22.1

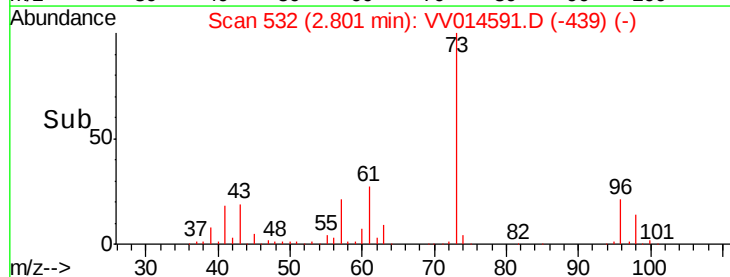
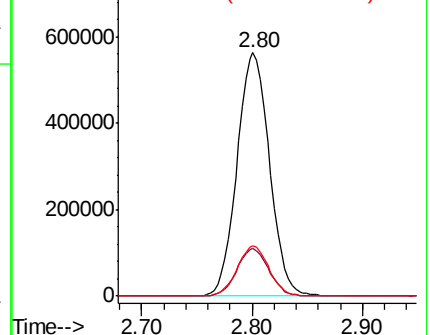
57 20.4 16.2 24.4

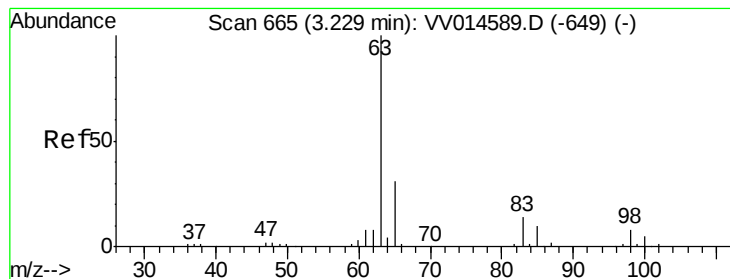


Abundance Ion 73.00 (72.70 to 73.70): VV014589.D (-516) (-)

Ion 43.00 (42.70 to 43.70): VV014589.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VV014589.D (-516) (-)





#19

1,1-Dichloroethane

Concen: 178.092 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

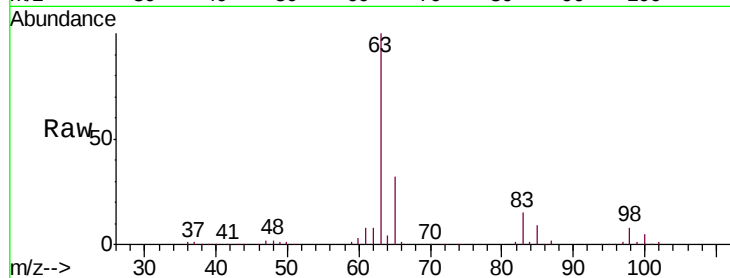
Tgt Ion: 63 Resp: 611724

Ion Ratio Lower Upper

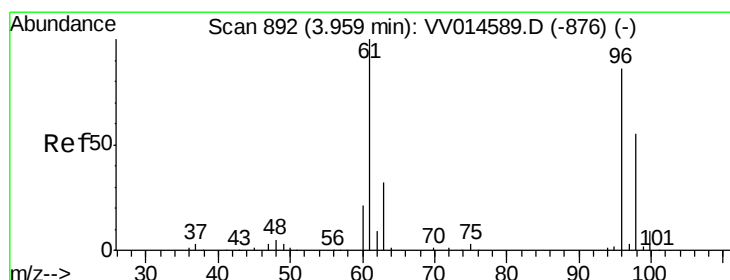
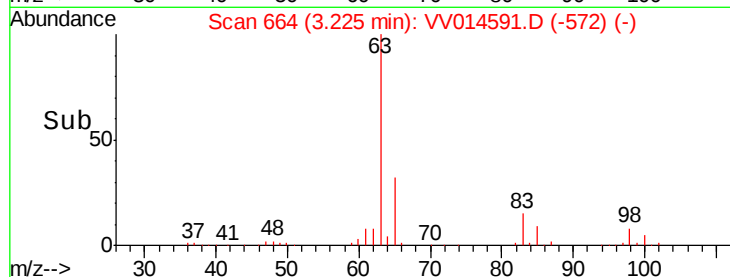
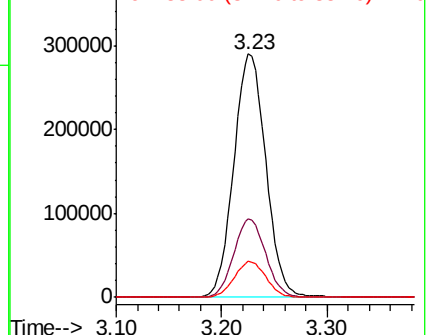
63 100

65 32.4 21.8 40.4

83 14.7 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 186.087 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

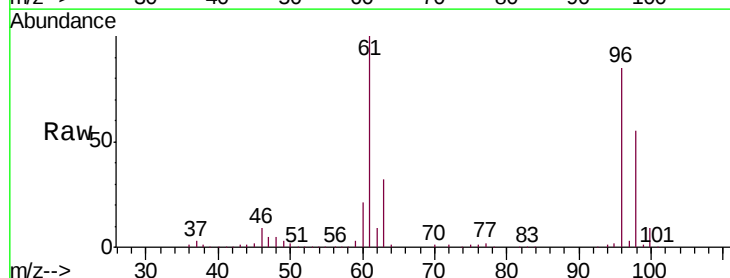
Tgt Ion: 96 Resp: 403812

Ion Ratio Lower Upper

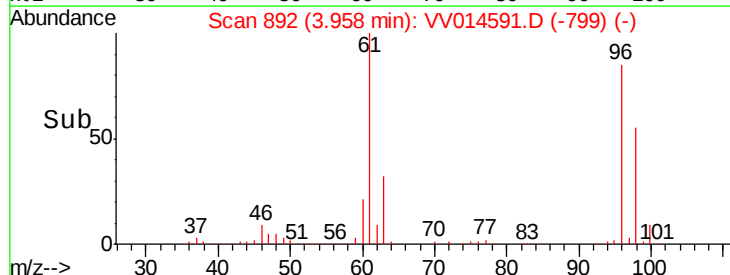
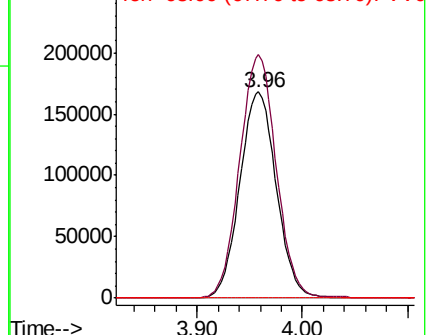
96 100

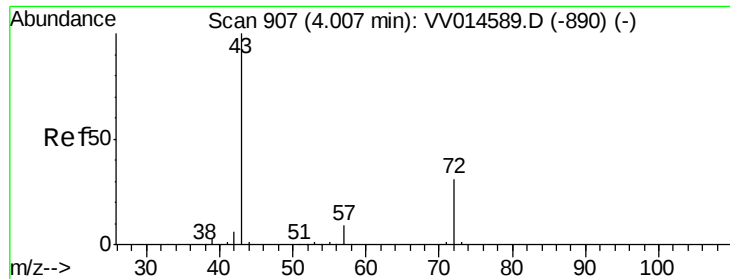
61 118.1 81.4 151.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 358.918 ug/L

RT: 4.00 min Scan# 906

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

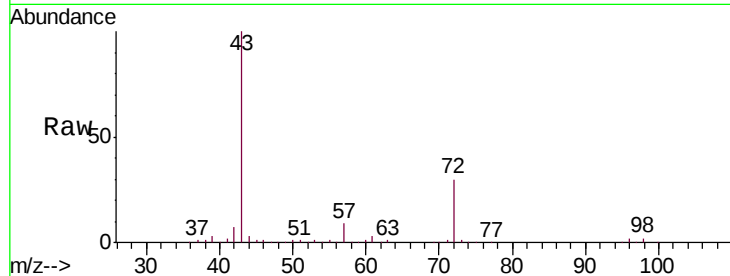
VSTD200206

Tgt Ion: 43 Resp: 519441

Ion Ratio Lower Upper

43 100

72 31.4 15.1 45.3



Abundance Ion 43.00 (42.70 to 43.70): VV014591.D (-906) (-)

Ion 72.00 (71.70 to 72.70): VV014591.D (-906) (-)

250000

200000

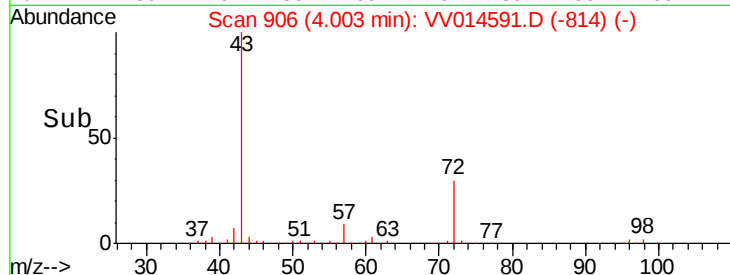
150000

100000

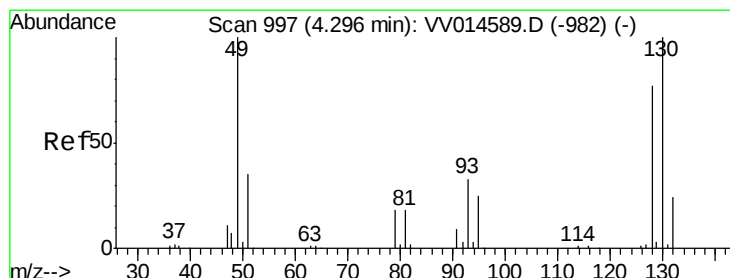
50000

0

Time-->



Time-->



#23

Bromochloromethane

Concen: 196.279 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Tgt Ion: 128 Resp: 203777

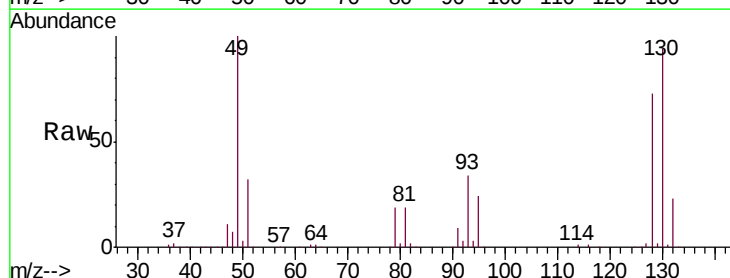
Ion Ratio Lower Upper

128 100

49 136.4 91.7 170.3

130 128.7 91.4 169.8

51 43.0 36.2 54.2



Abundance Ion 128.00 (127.70 to 128.70): VV014591.D (-904) (-)

Ion 49.00 (48.70 to 49.70): VV014591.D (-904) (-)

Ion 130.00 (129.70 to 130.70): VV014591.D (-904) (-)

Ion 51.00 (50.70 to 51.70): VV014591.D (-904) (-)

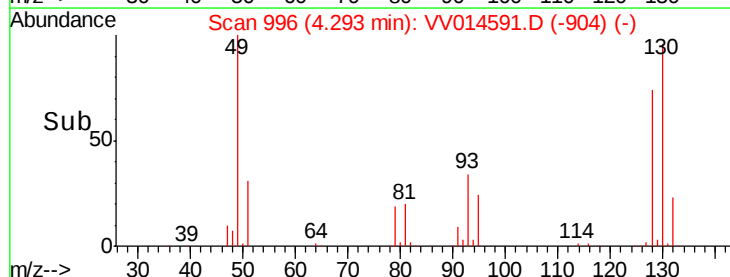
150000

100000

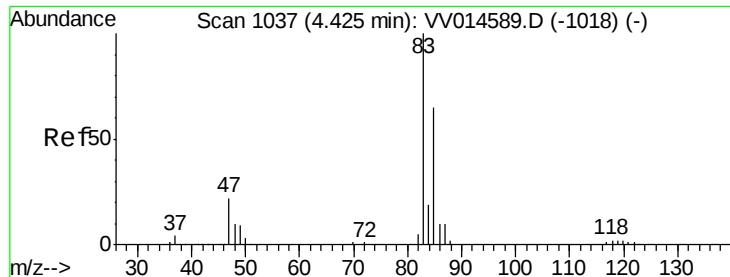
50000

0

Time-->



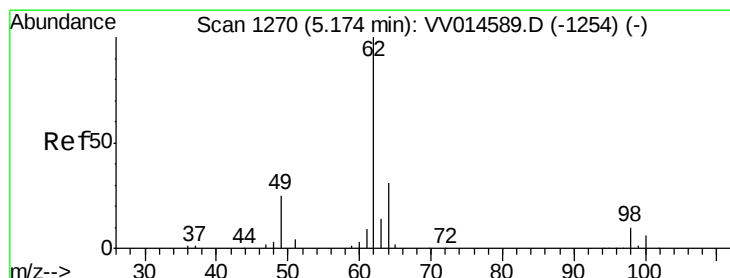
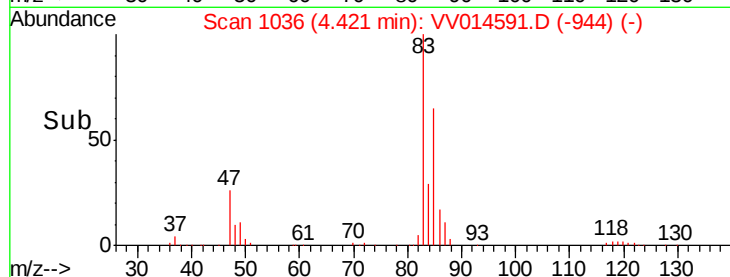
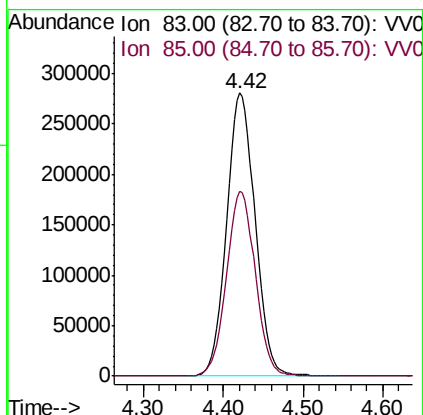
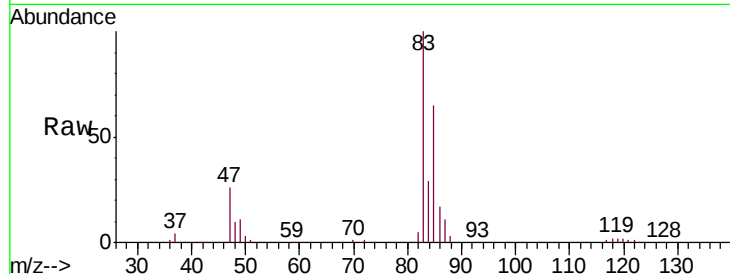
Time-->



#25
Chloroform
Concen: 191.640 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

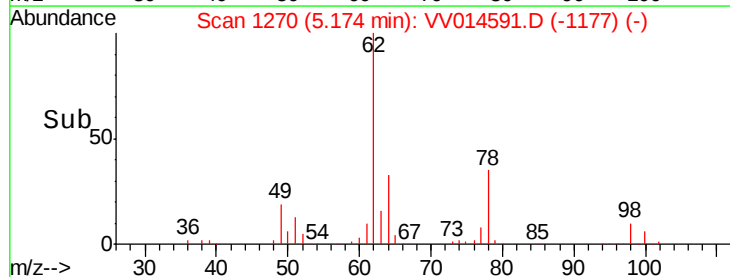
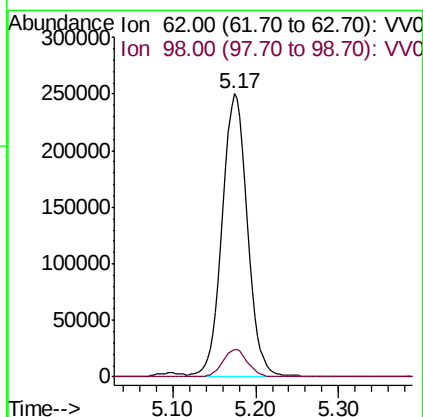
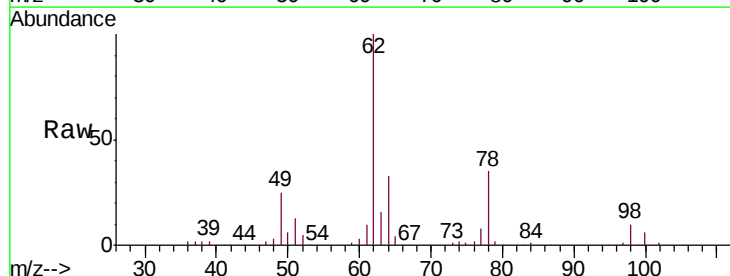
Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

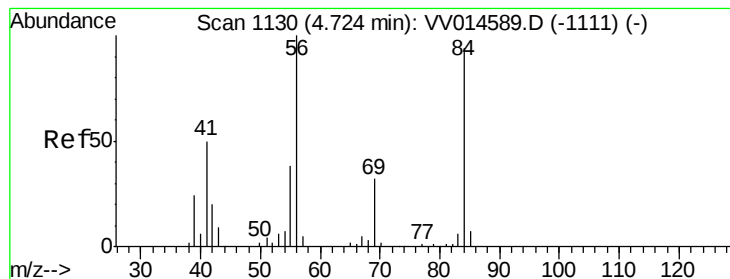
Tgt Ion: 83 Resp: 679907
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 200.570 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Tgt Ion: 62 Resp: 529613
Ion Ratio Lower Upper
62 100
98 9.8 8.1 12.1





#29

Cyclohexane

Concen: 160.655 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

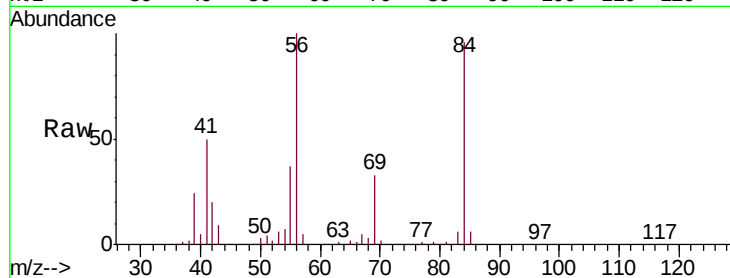
Tgt Ion: 56 Resp: 525408

Ion Ratio Lower Upper

56 100

69 33.1 26.6 39.8

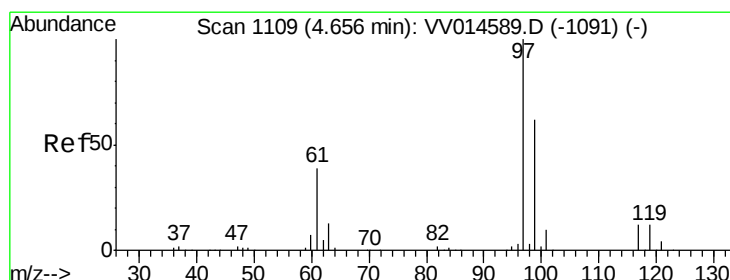
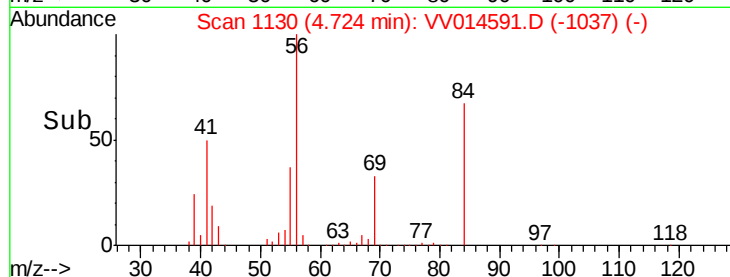
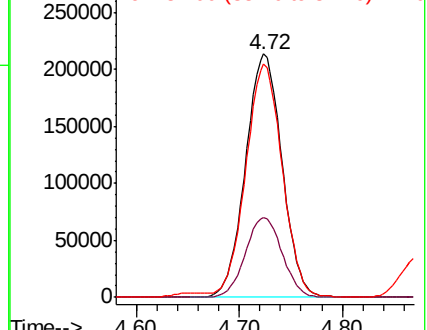
84 95.7 76.6 114.8



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



#30

1,1,1-Trichloroethane

Concen: 197.979 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

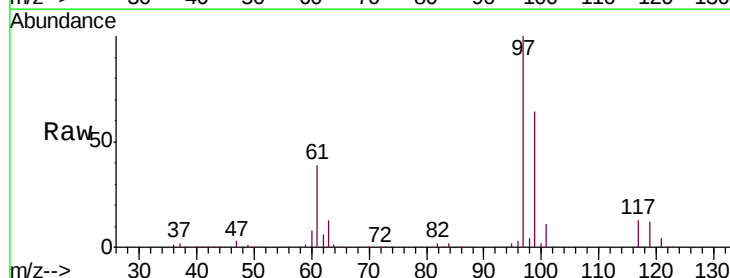
Tgt Ion: 97 Resp: 626523

Ion Ratio Lower Upper

97 100

99 64.4 50.6 76.0

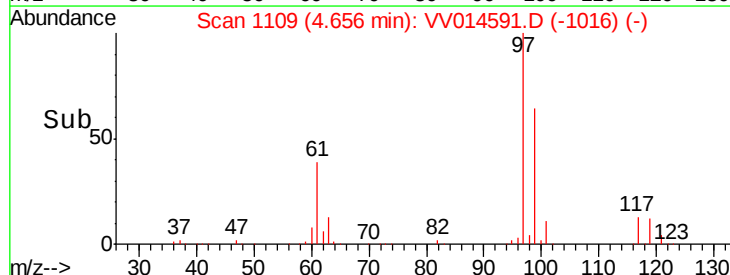
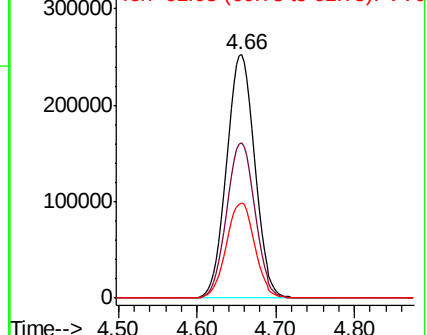
61 39.5 31.6 47.4

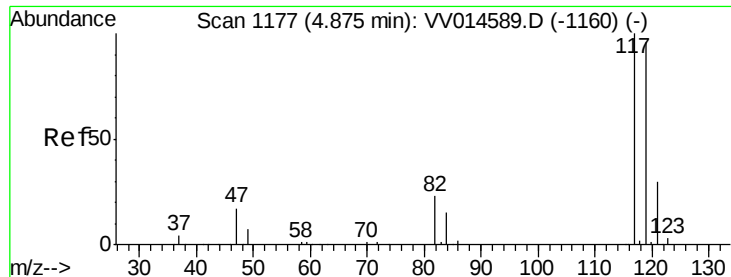


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 201.620 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

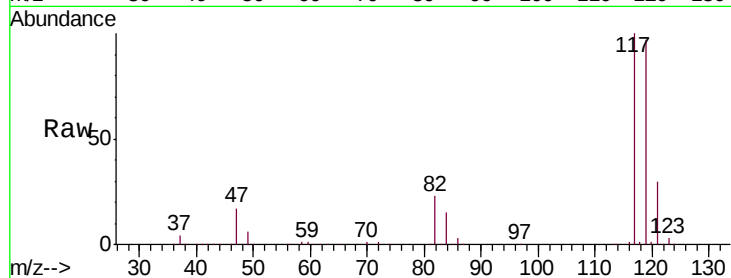
VSTD200206

Tgt Ion:117 Resp: 565801

Ion Ratio Lower Upper

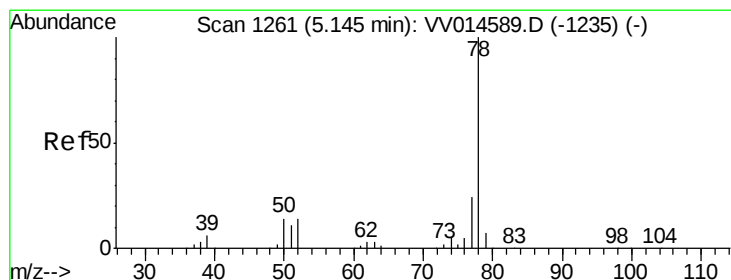
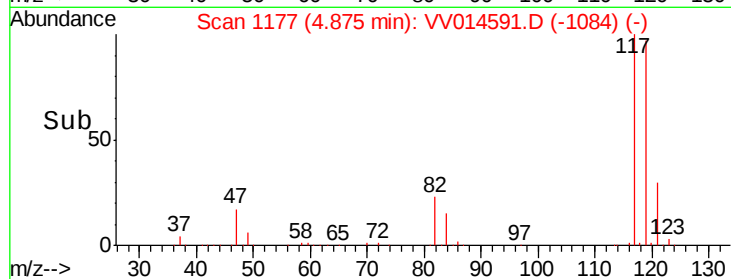
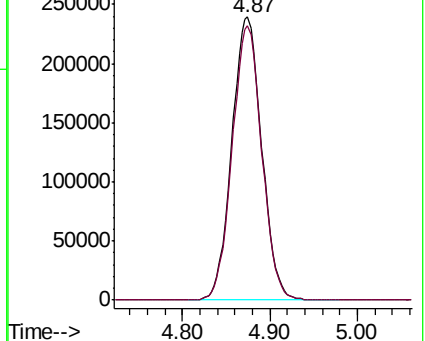
117 100

119 96.1 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 176.351 ug/L

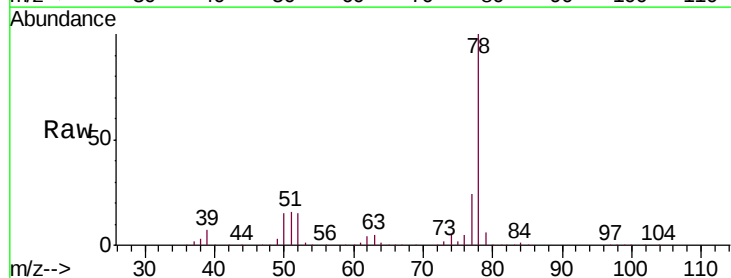
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

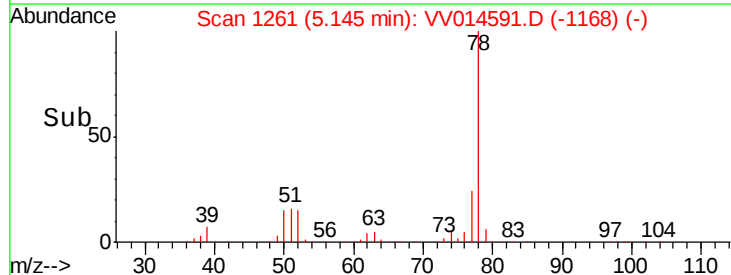
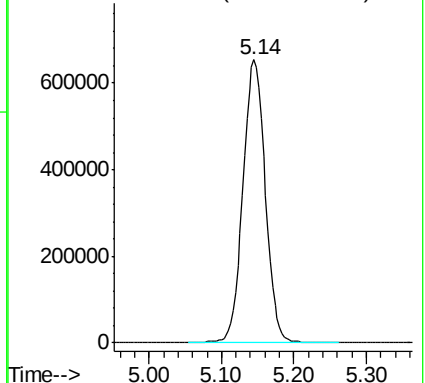
Lab File: VV014591.D

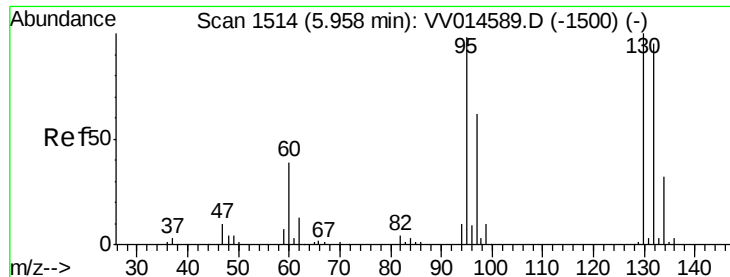
Acq: 17 Feb 2020 12:50

Tgt Ion: 78 Resp: 1408028



Abundance Ion 78.00 (77.70 to 78.70): VV0

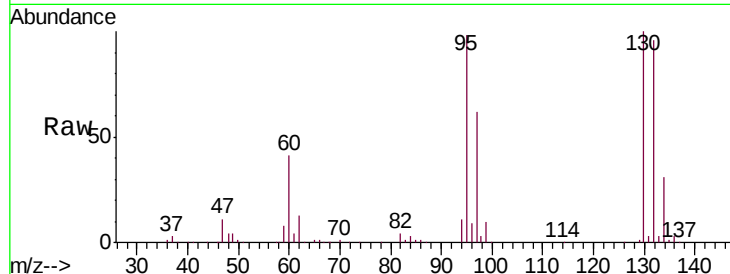




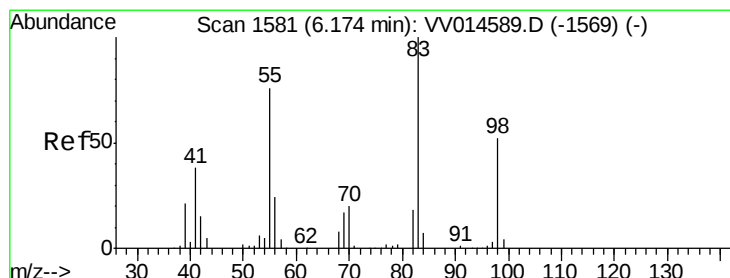
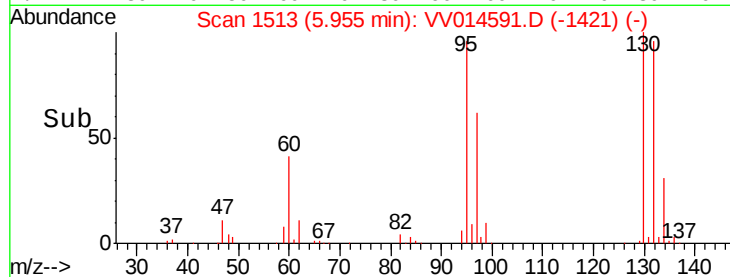
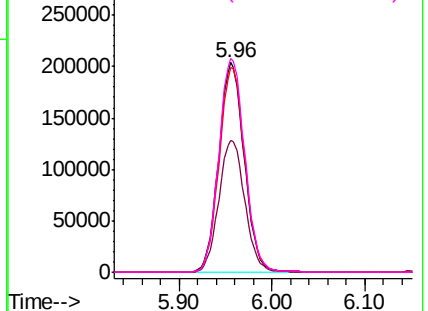
#34
 Trichloroethene
 Concen: 182.700 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

Tgt Ion: 95 Resp: 389646
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.4 82.4
 132 98.0 67.8 125.8
 130 102.0 71.4 132.6

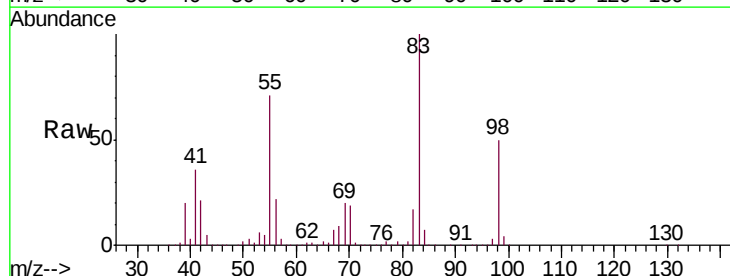


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

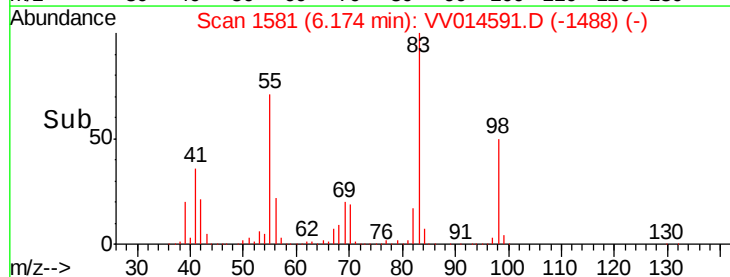
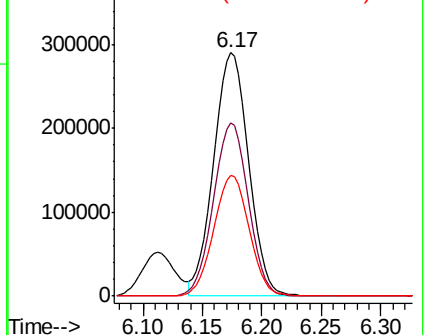


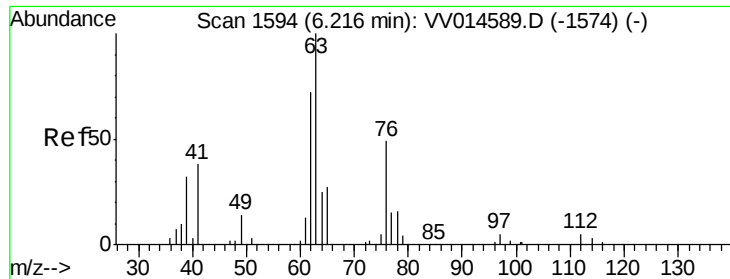
#35
 Methylcyclohexane
 Concen: 171.907 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion: 83 Resp: 593067
 Ion Ratio Lower Upper
 83 100
 55 70.8 57.4 86.2
 98 50.2 40.4 60.6



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

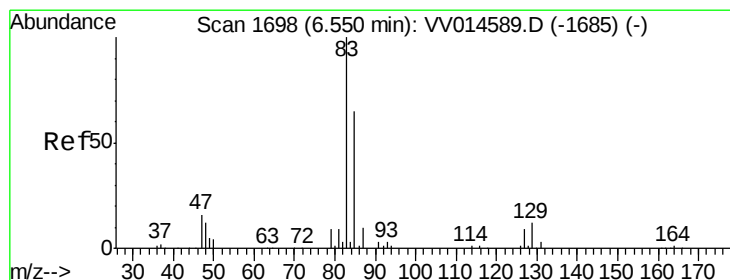
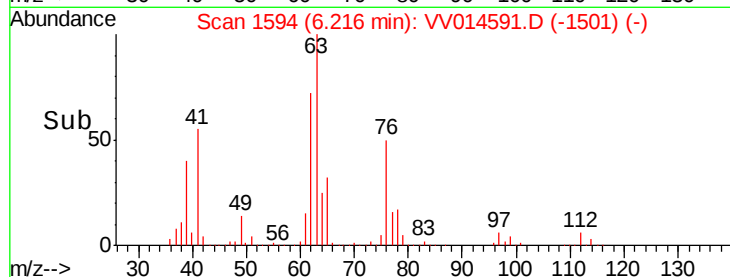
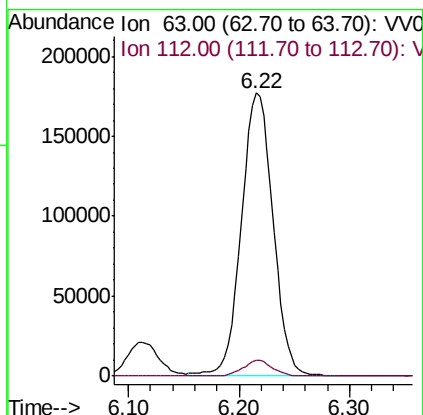
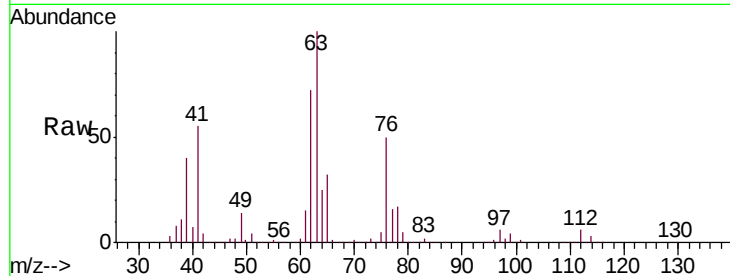




#37
 1,2-Dichloropropane
 Concen: 173.590 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

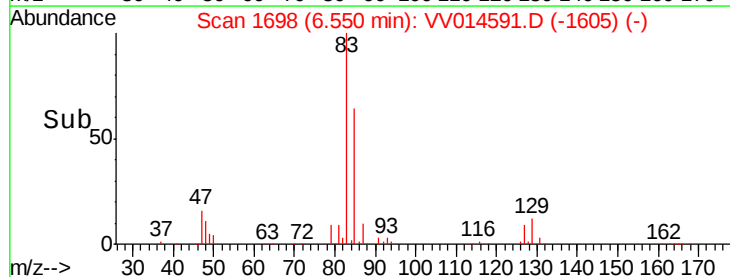
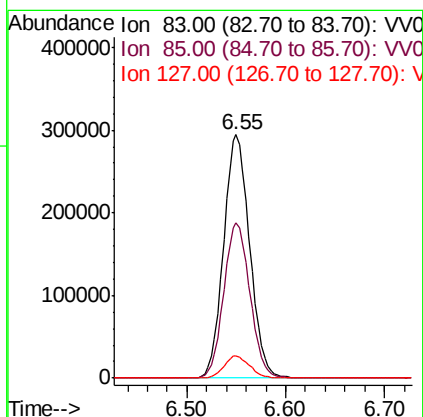
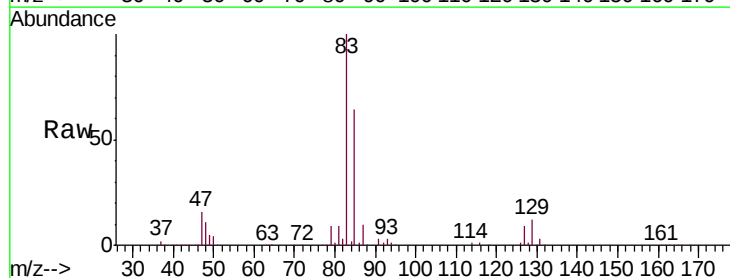
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

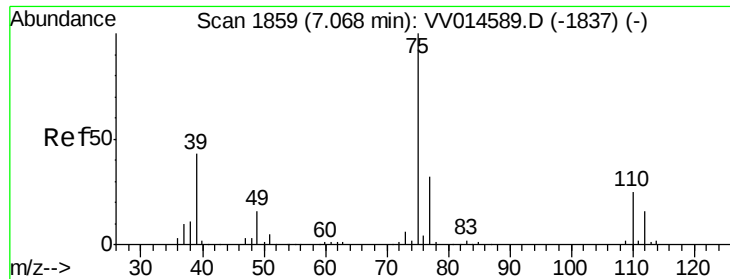
Tgt Ion: 63 Resp: 351130
 Ion Ratio Lower Upper
 63 100
 112 5.2 4.2 6.2



#38
 Bromodichloromethane
 Concen: 196.931 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion: 83 Resp: 546295
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.5 84.5
 127 9.0 7.1 10.7

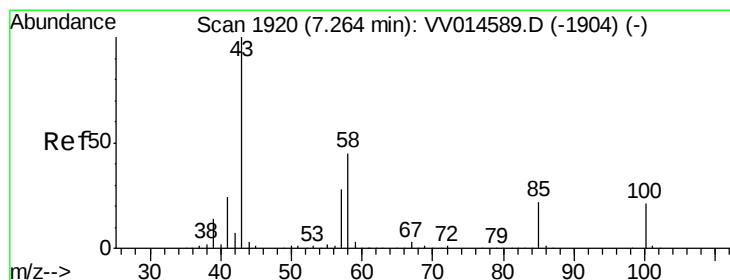
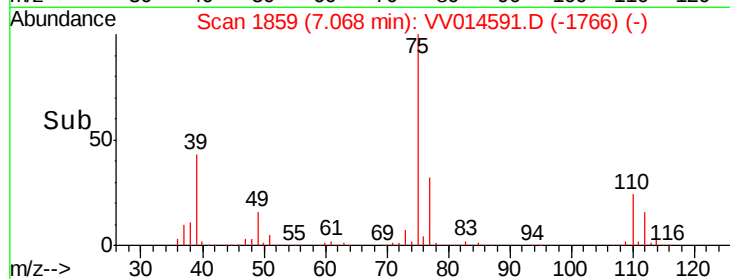
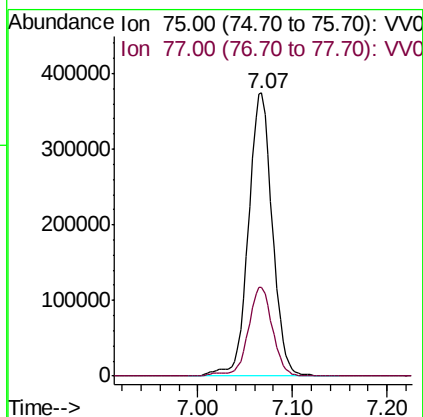
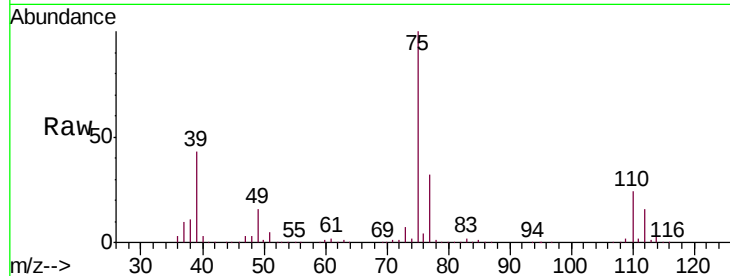




#39
 cis-1,3-Dichloropropene
 Concen: 192.292 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

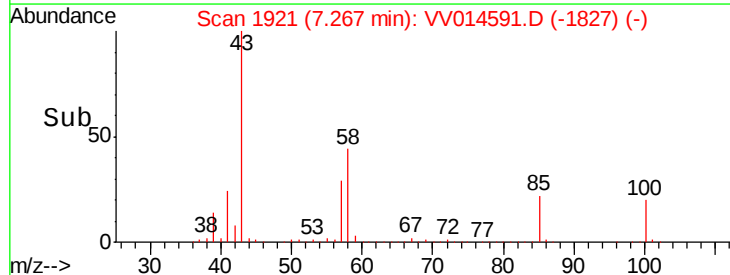
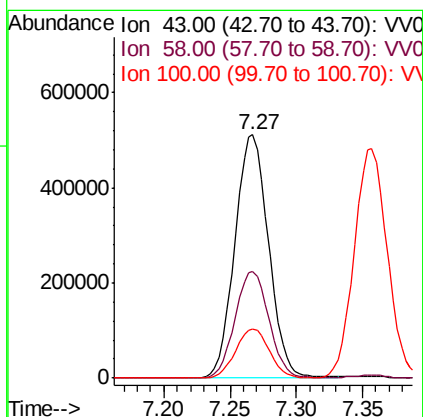
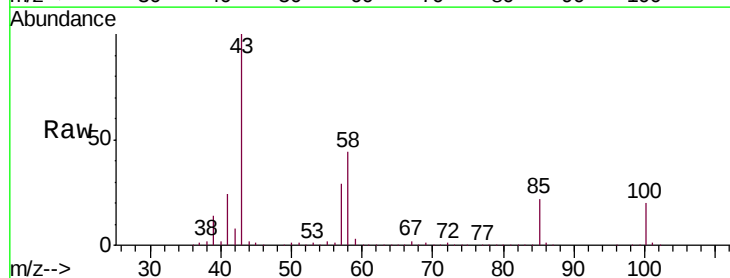
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

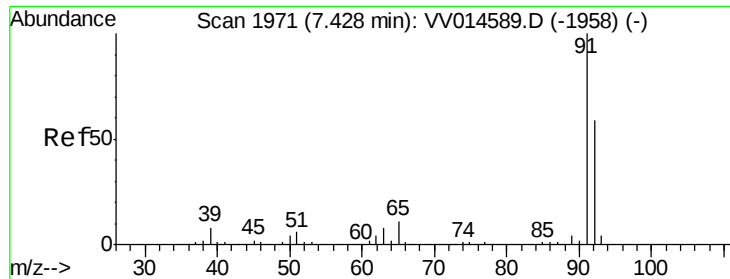
Tgt Ion: 75 Resp: 658333
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 349.175 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion: 43 Resp: 904891
 Ion Ratio Lower Upper
 43 100
 58 44.0 35.6 53.4
 100 20.2 16.0 24.0





#42

Toluene

Concen: 179.448 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

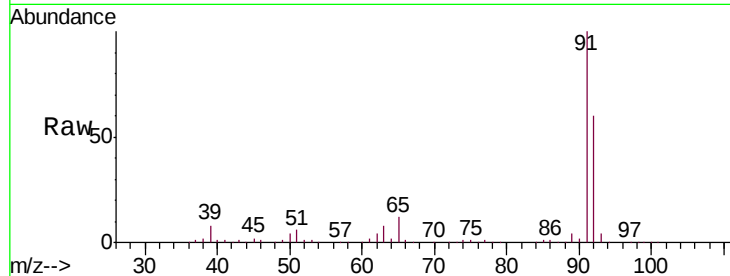
Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

Tgt Ion: 91 Resp: 1547440

Ion Ratio Lower Upper

91 100

92 59.5 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VV014589.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV014589.D (-1958) (-)

7.43

800000

600000

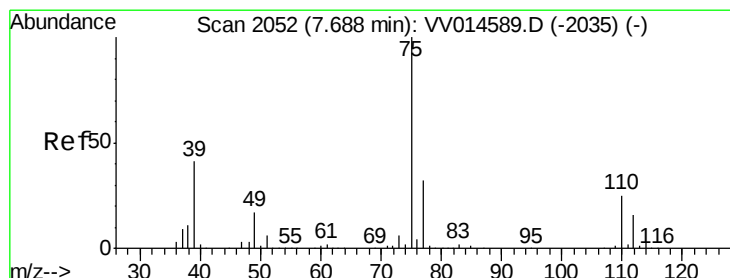
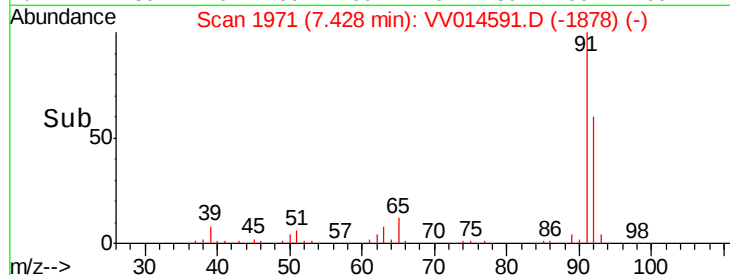
400000

200000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 193.792 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014591.D

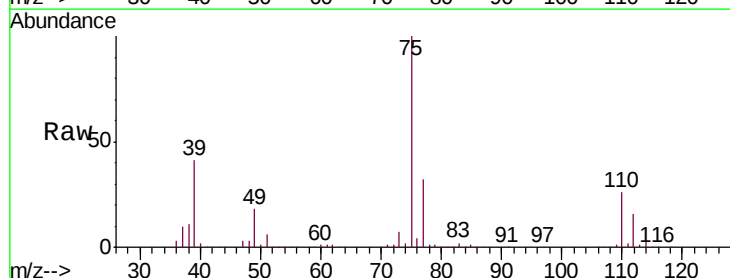
Acq: 17 Feb 2020 12:50

Tgt Ion: 75 Resp: 595067

Ion Ratio Lower Upper

75 100

77 31.9 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV014589.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV014589.D (-2035) (-)

7.69

400000

300000

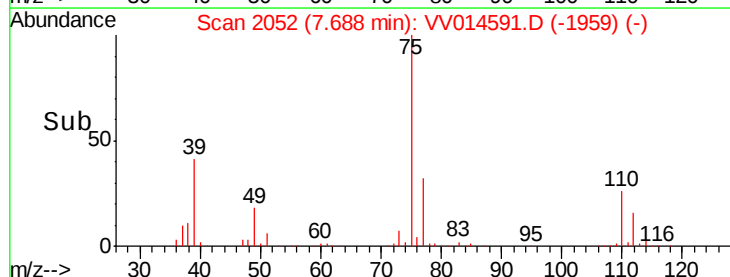
200000

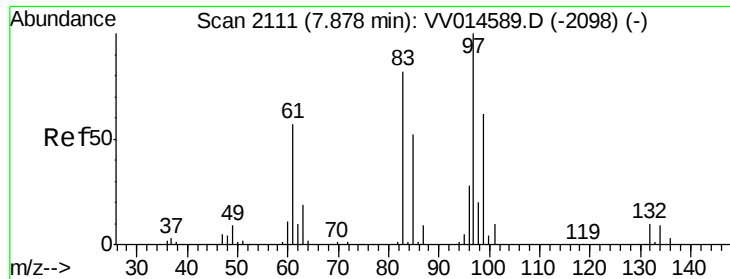
100000

0

7.60 7.70 7.80

Time-->

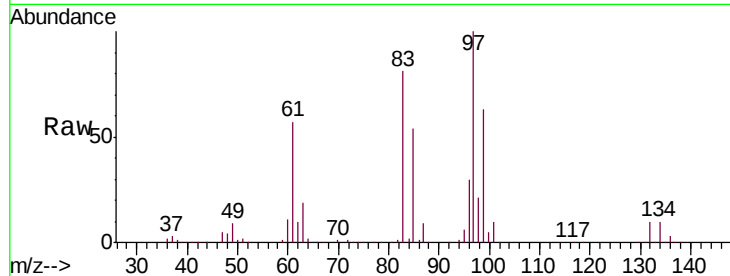




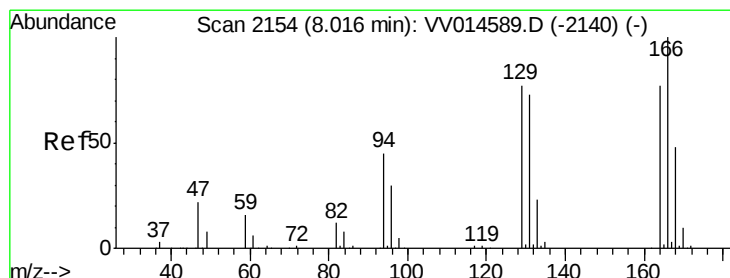
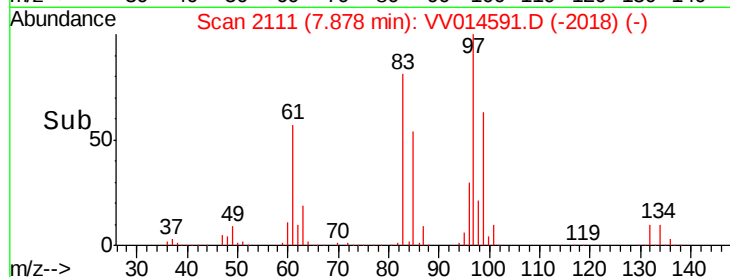
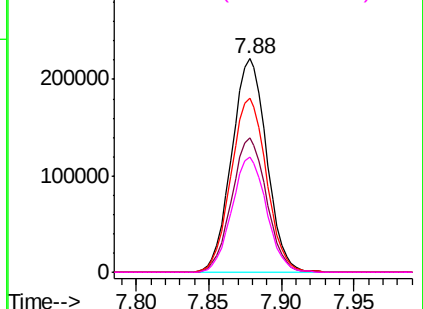
#45
 1,1,2-Trichloroethane
 Concen: 187.343 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

Tgt Ion:	97	Resp:	370825
Ion	Ratio	Lower	Upper
97	100		
99	62.9	43.4	80.6
83	81.4	57.6	107.0
85	54.0	36.1	67.1

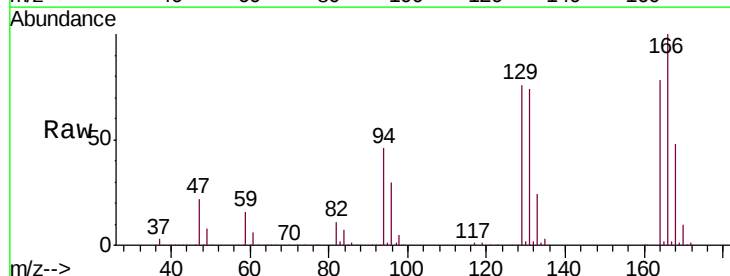


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

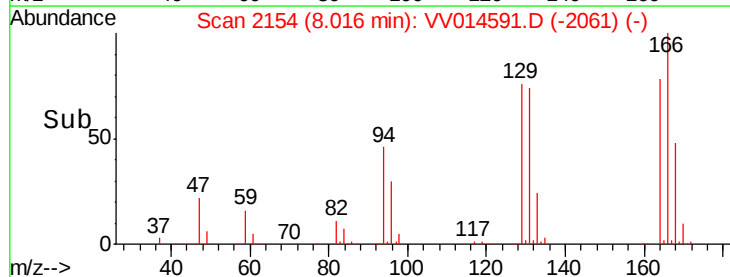
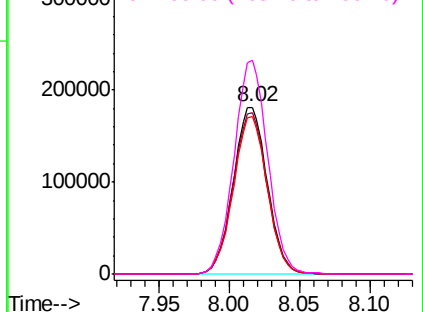


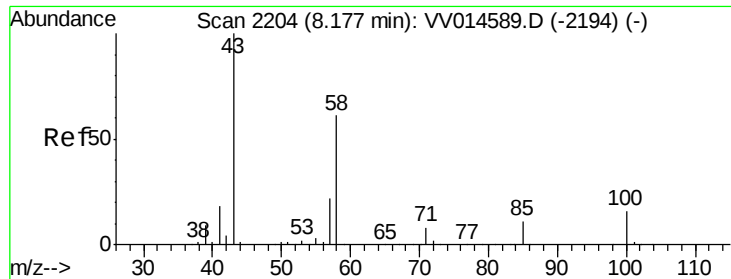
#46
 Tetrachloroethene
 Concen: 188.202 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion:	164	Resp:	306616
Ion	Ratio	Lower	Upper
164	100		
129	96.9	69.8	129.6
131	94.4	66.2	123.0
166	128.1	90.9	168.9



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

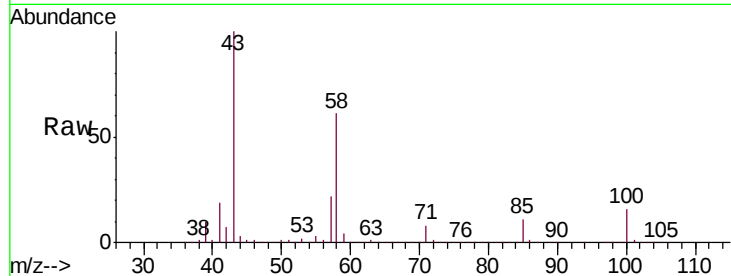




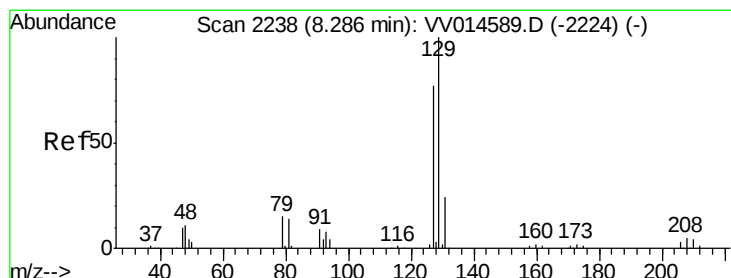
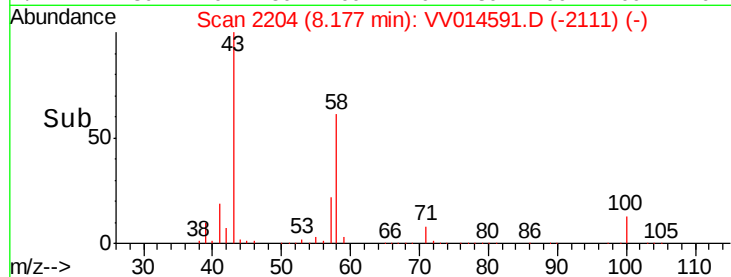
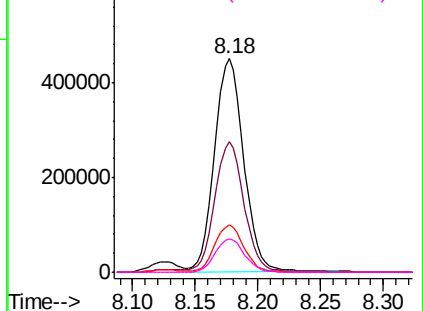
#48
2-Hexanone
Concen: 366.623 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

Tgt Ion: 43 Resp: 727480
Ion Ratio Lower Upper
43 100
58 61.4 49.8 74.6
57 21.8 17.0 25.6
100 15.8 13.4 20.2

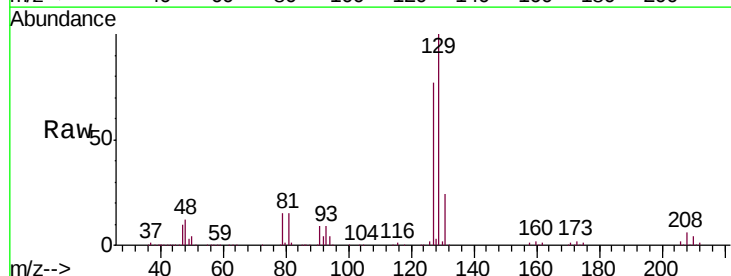


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

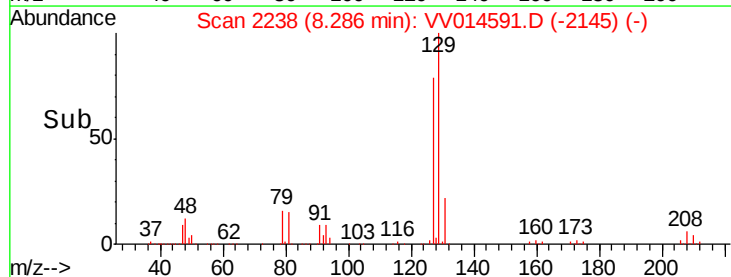
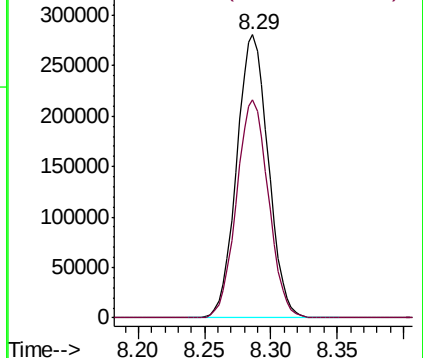


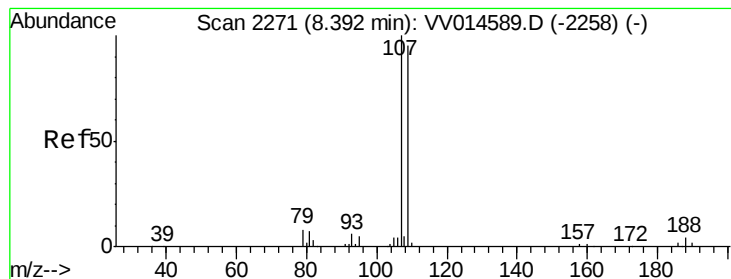
#49
Dibromochloromethane
Concen: 205.546 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Tgt Ion: 129 Resp: 465196
Ion Ratio Lower Upper
129 100
127 77.0 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 192.314 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

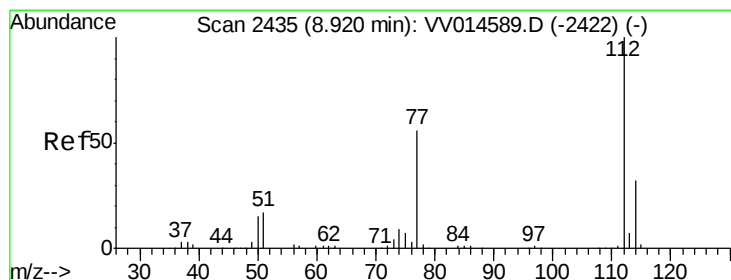
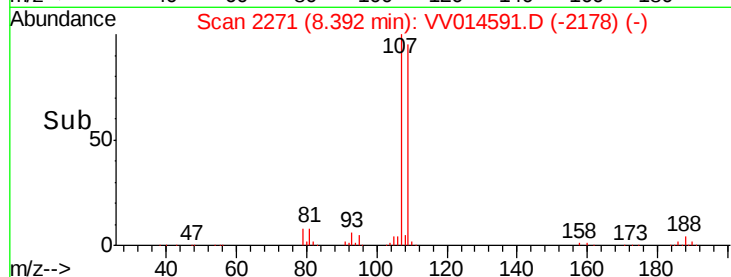
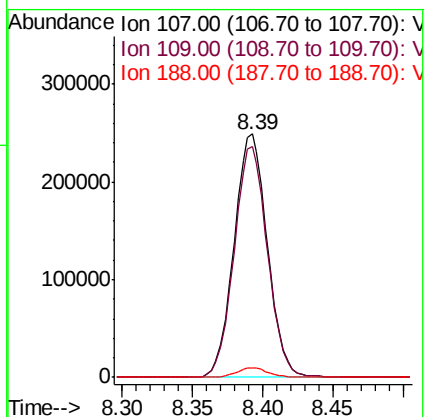
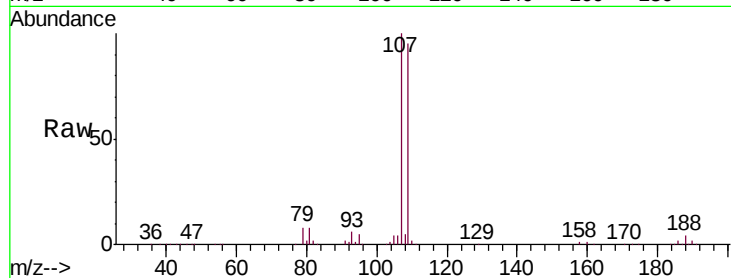
Tgt Ion:107 Resp: 411706

Ion Ratio Lower Upper

107 100

109 94.9 66.5 123.5

188 3.8 3.3 4.9



#51

Chlorobenzene

Concen: 183.815 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

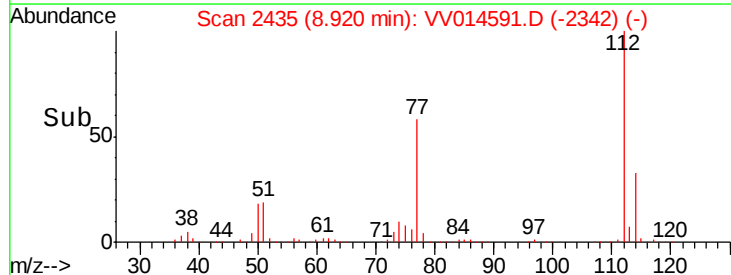
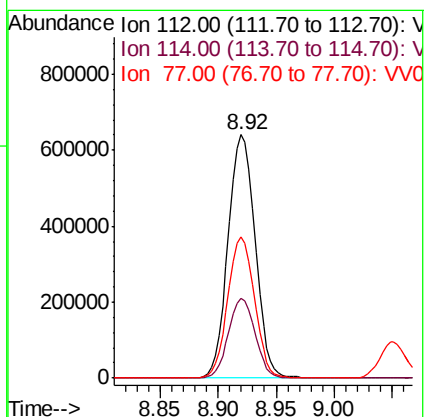
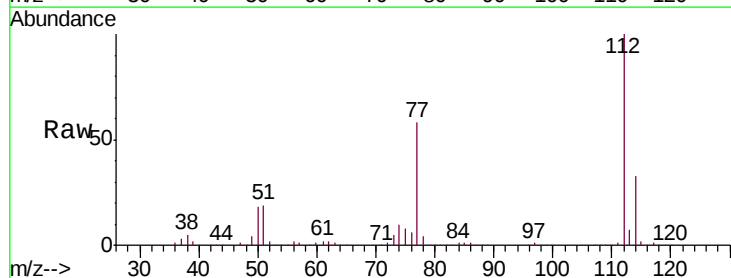
Tgt Ion:112 Resp: 1041113

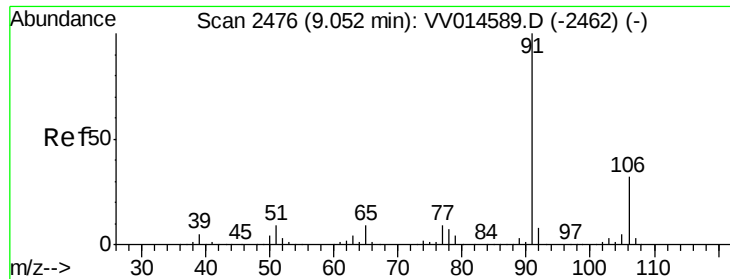
Ion Ratio Lower Upper

112 100

114 32.7 22.4 41.6

77 57.9 45.5 68.3

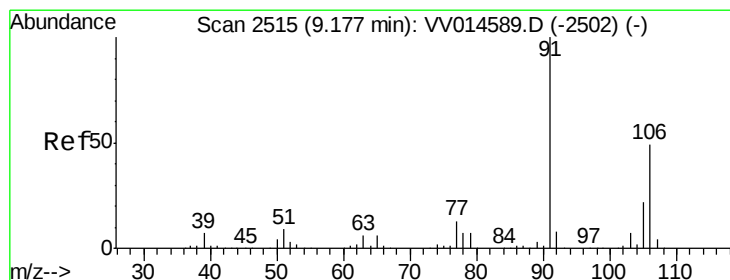
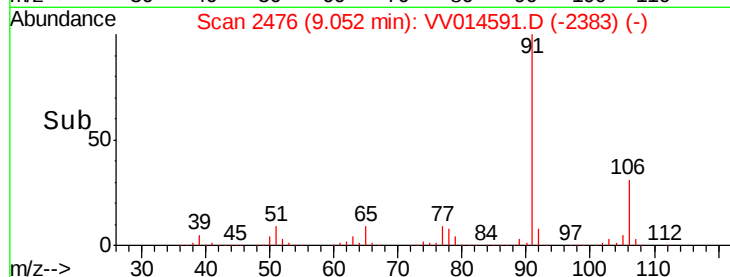
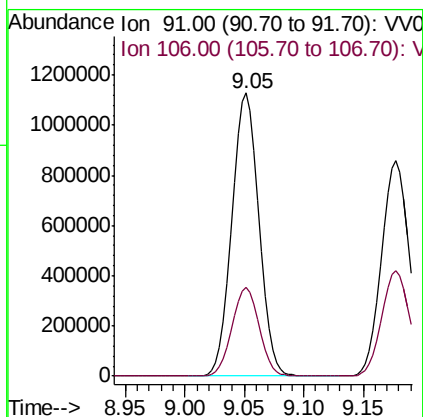
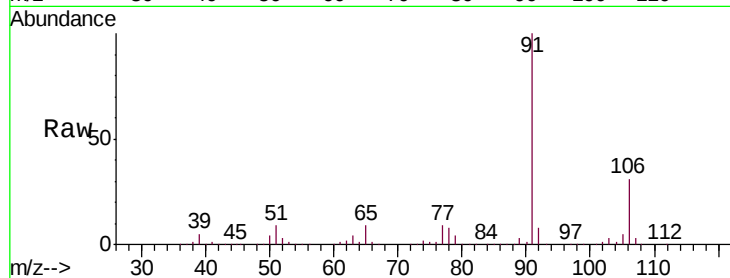




#52
Ethylbenzene
Concen: 183.325 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

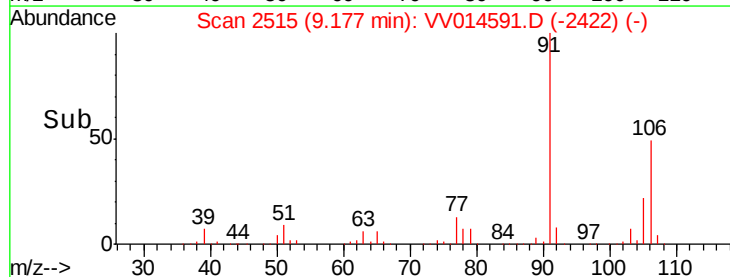
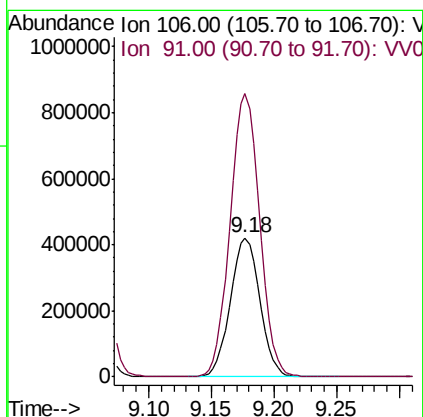
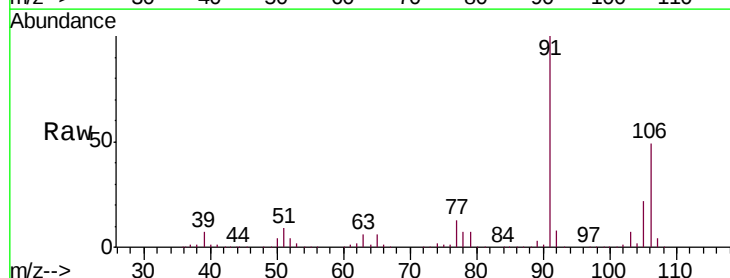
Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

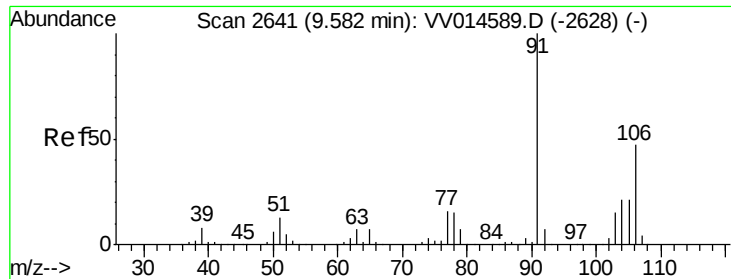
Tgt Ion: 91 Resp: 1775988
Ion Ratio Lower Upper
91 100
106 31.4 22.0 41.0



#53
m,p-Xylene
Concen: 183.688 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Tgt Ion: 106 Resp: 686276
Ion Ratio Lower Upper
106 100
91 203.6 141.7 263.3

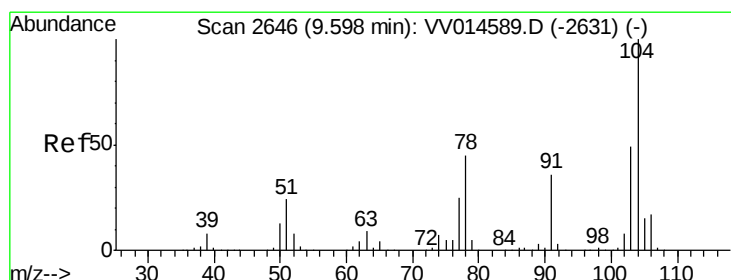
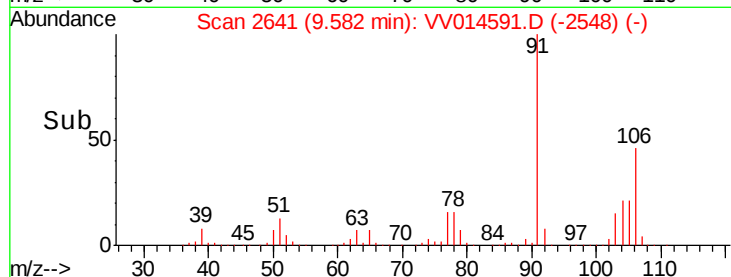
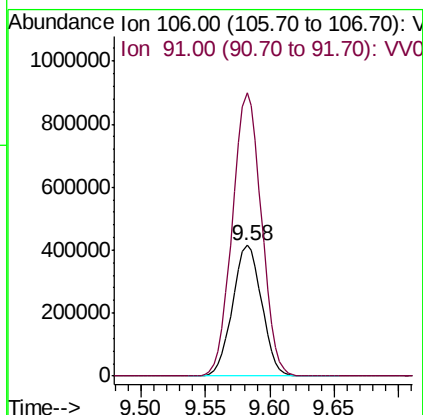
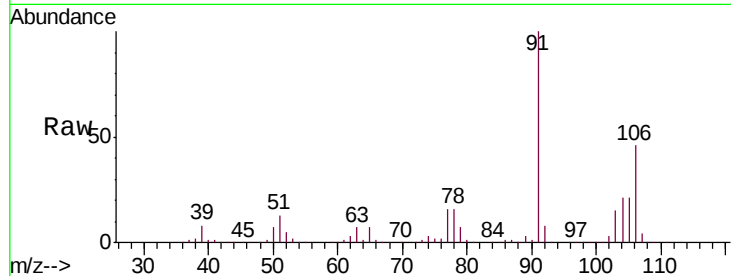




#54
o-Xylene
Concen: 182.611 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

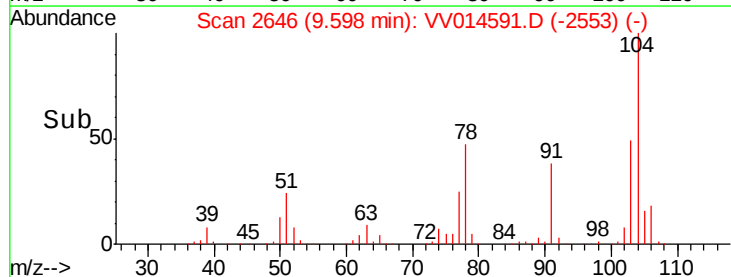
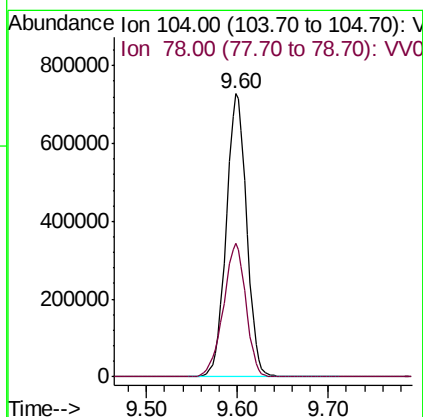
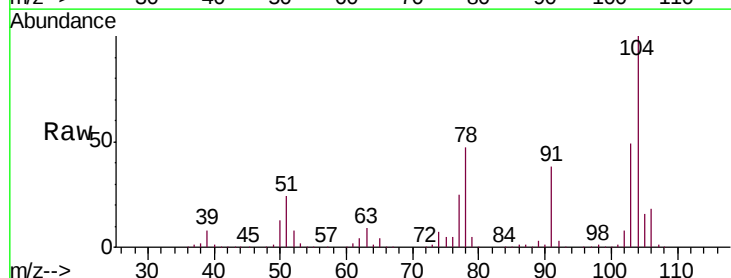
Instrument :
MSVOA_V
ClientSampleId :
VSTD200206

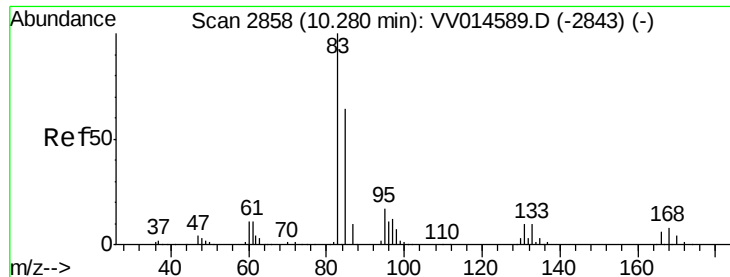
Tgt Ion:106 Resp: 653837
Ion Ratio Lower Upper
106 100
91 216.3 150.5 279.5



#55
Styrene
Concen: 186.127 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. -0.00 min
Lab File: VV014591.D
Acq: 17 Feb 2020 12:50

Tgt Ion:104 Resp: 1137075
Ion Ratio Lower Upper
104 100
78 47.1 31.9 59.2

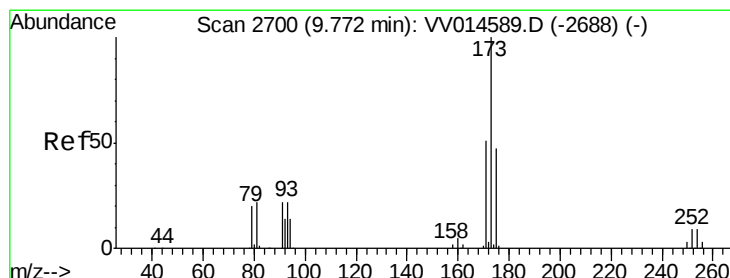
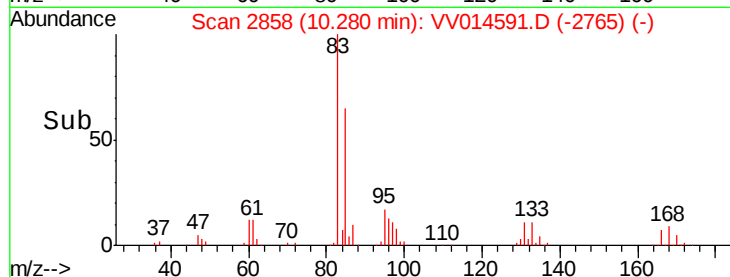
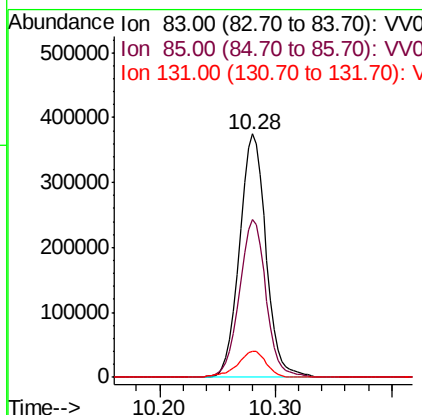
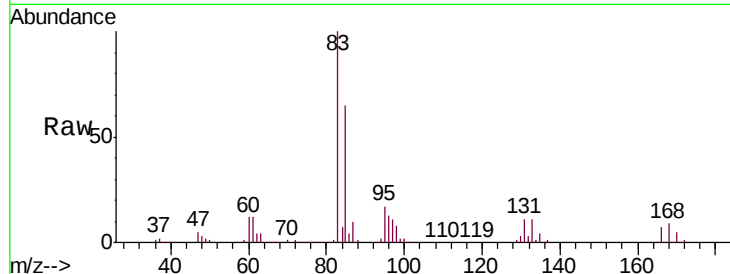




#57
 1,1,2,2-Tetrachloroethane
 Concen: 191.127 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

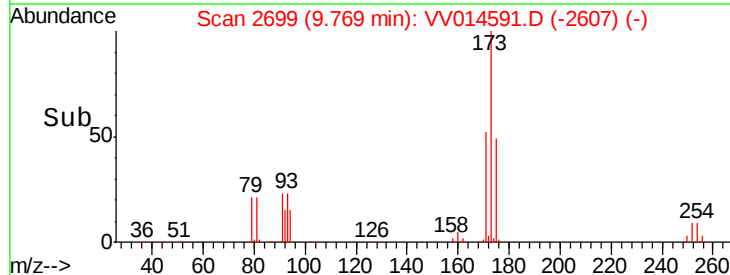
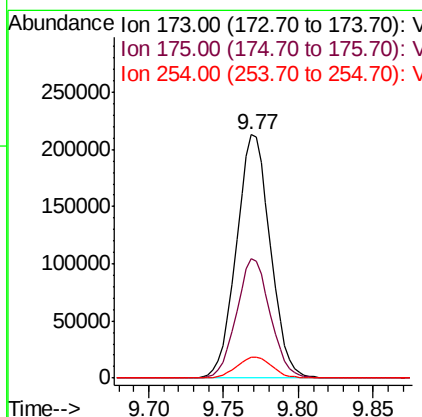
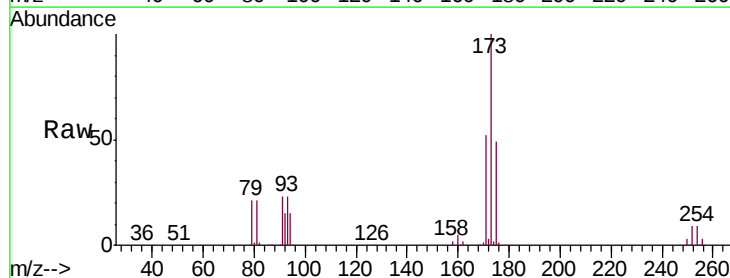
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

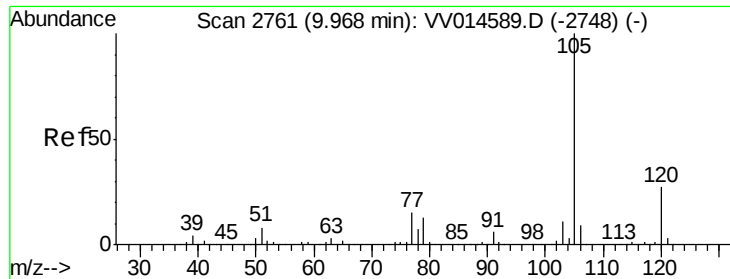
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.9	83.3
131	10.7	8.4	12.6



#59
 Bromoform
 Concen: 207.196 ug/L
 RT: 9.77 min Scan# 2699
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.5	57.7
254	9.0	7.4	11.0





#60

Isopropylbenzene

Concen: 181.097 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

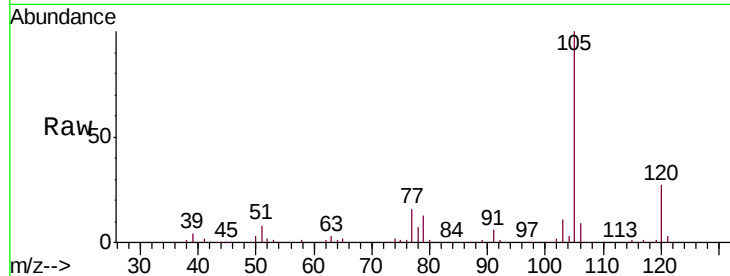
Tgt Ion: 105 Resp: 1761527

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

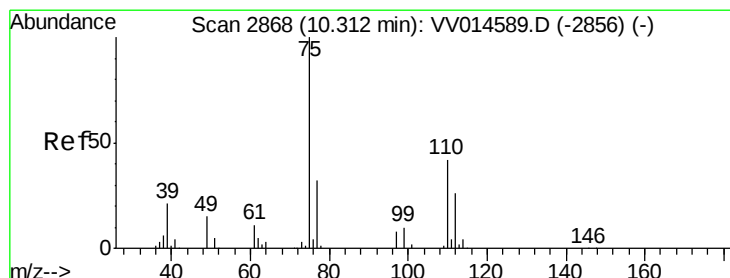
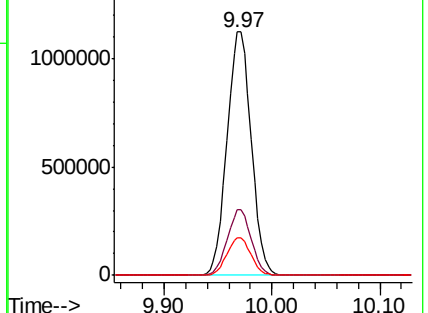
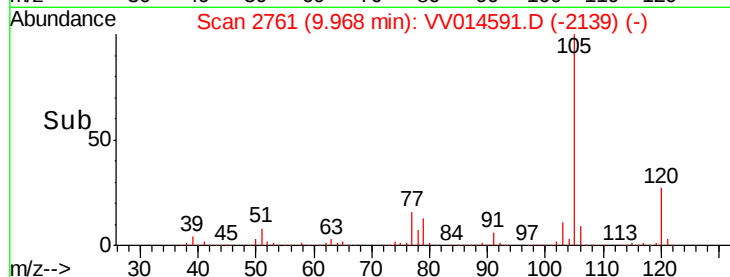
77 15.4 12.2 18.2



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



#61

1,2,3-Trichloropropane

Concen: 185.857 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

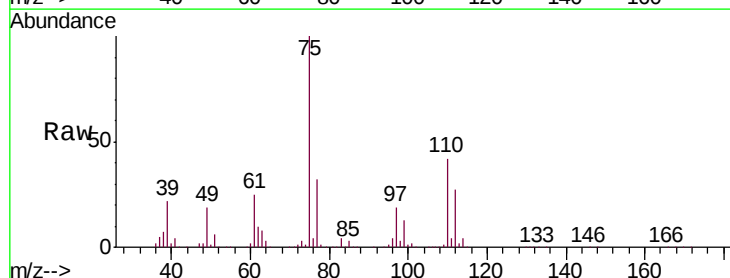
Tgt Ion: 75 Resp: 473238

Ion Ratio Lower Upper

75 100

77 32.2 25.6 38.4

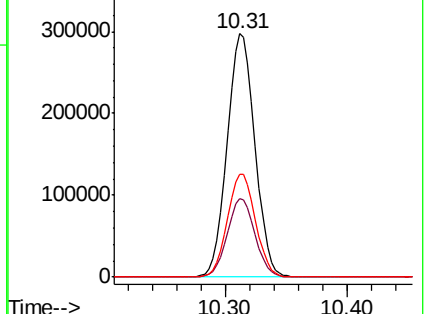
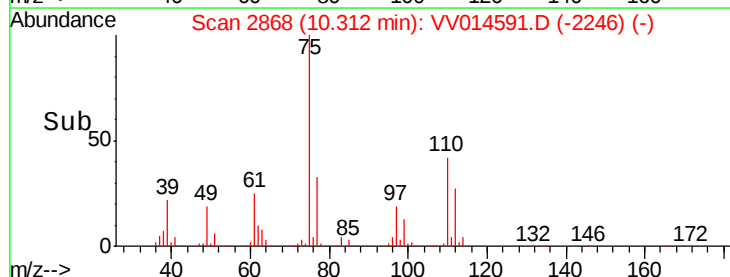
110 42.8 33.4 50.0

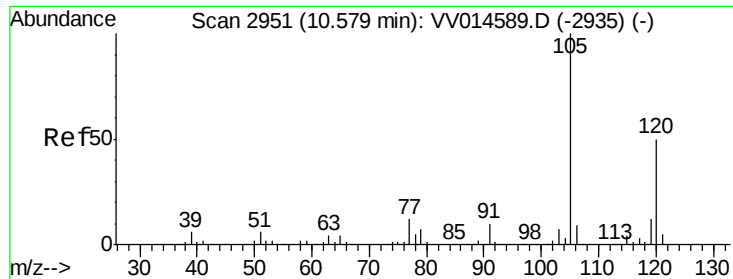


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

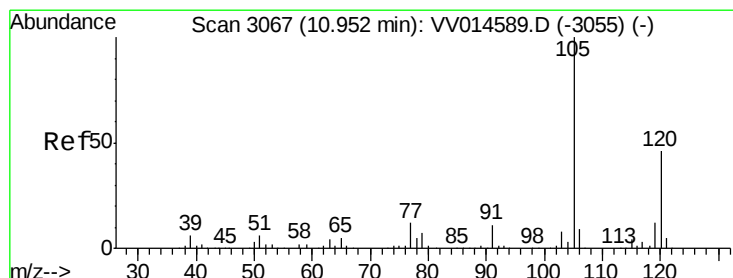
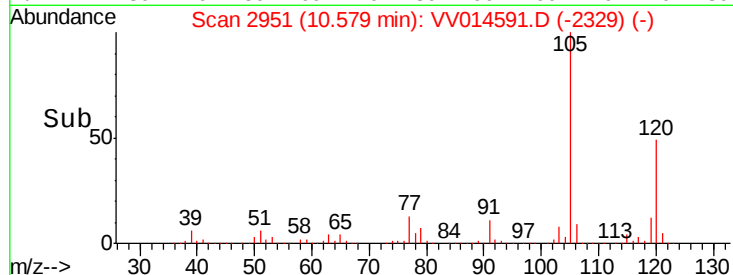
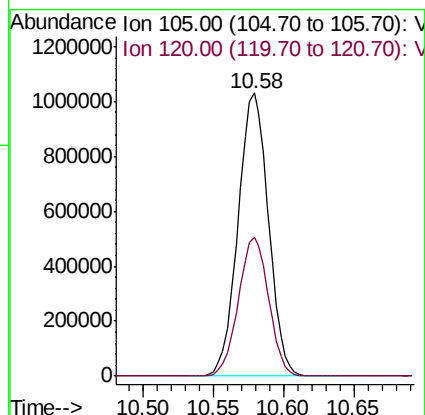
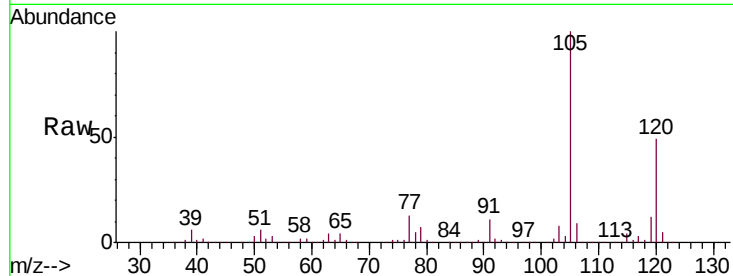




#62
 1,3,5-Trimethylbenzene
 Concen: 187.415 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

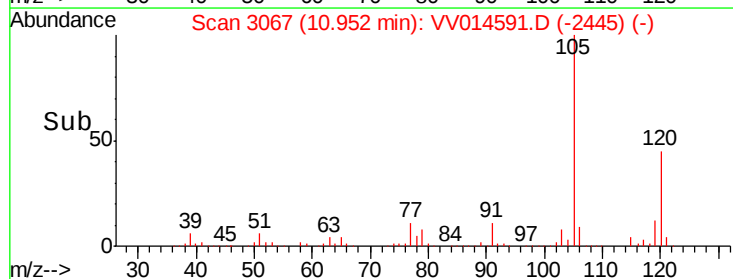
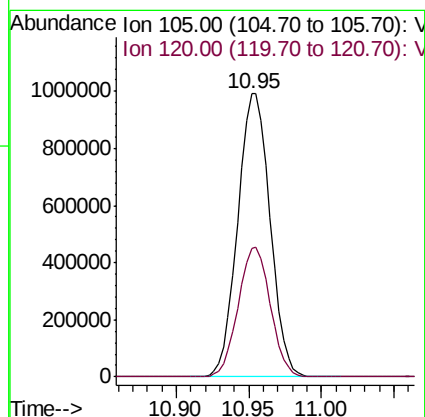
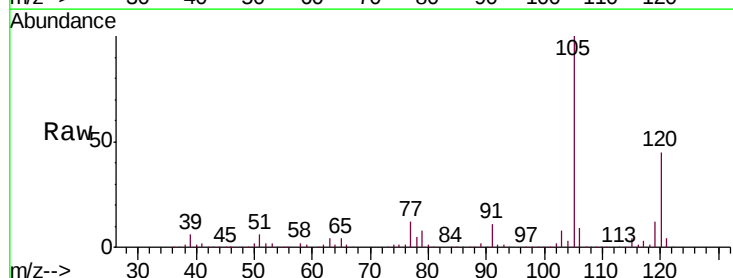
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

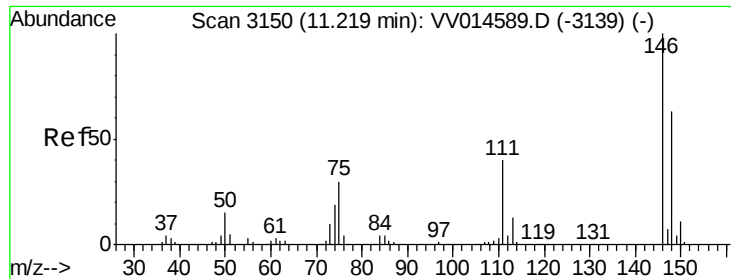
Tgt Ion:105 Resp: 1557628
 Ion Ratio Lower Upper
 105 100
 120 48.7 39.8 59.6



#63
 1,2,4-Trimethylbenzene
 Concen: 187.665 ug/L
 RT: 10.95 min Scan# 3067
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion:105 Resp: 1535675
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.6 55.0

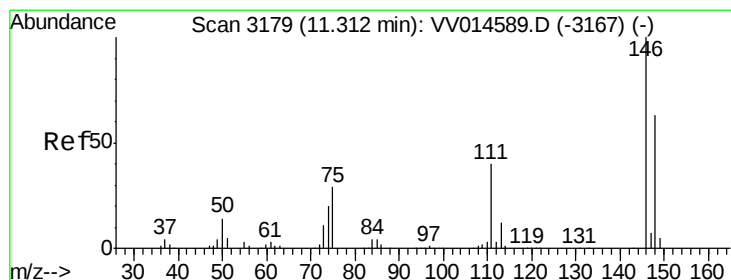
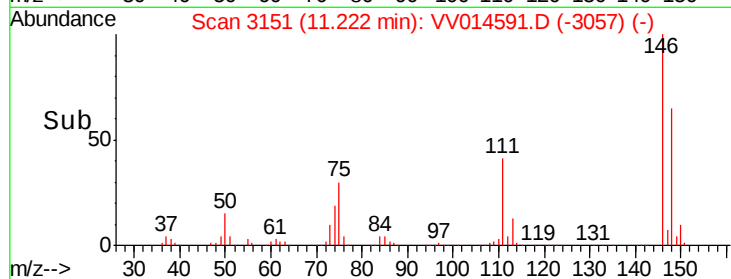
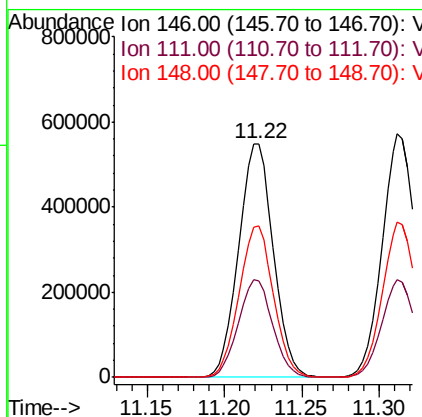
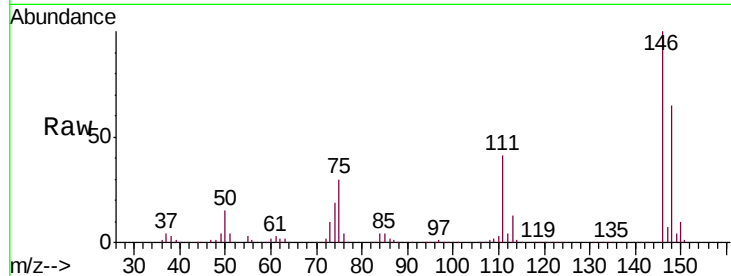




#64
 1,3-Dichlorobenzene
 Concen: 186.339 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

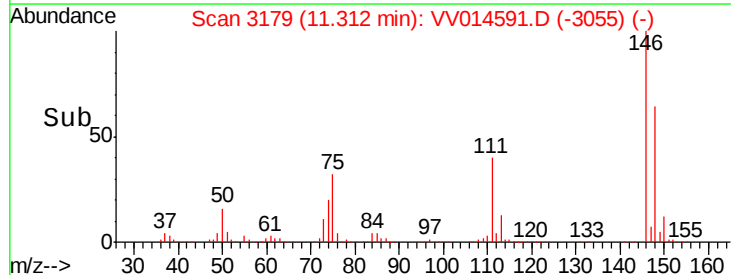
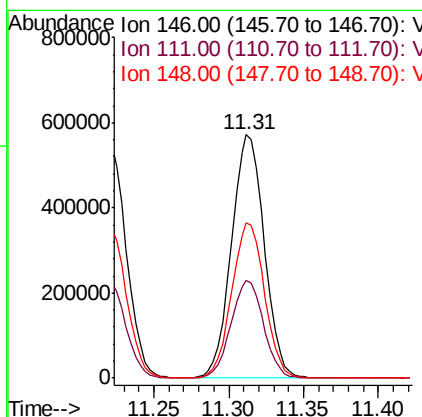
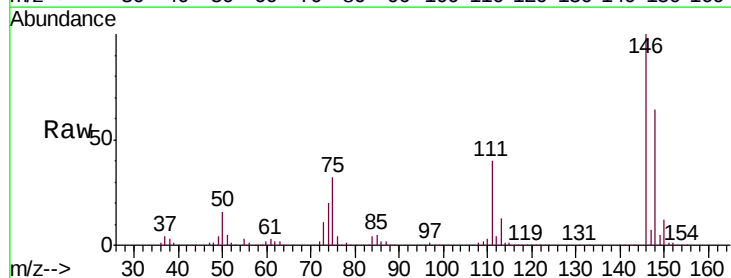
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

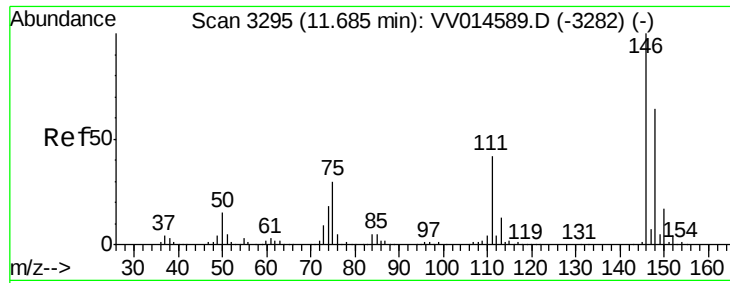
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	28.3	52.5
148	64.5	44.0	81.8



#65
 1,4-Dichlorobenzene
 Concen: 184.077 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.9	51.9
148	63.8	44.2	82.2





#67

1,2-Dichlorobenzene

Concen: 184.845 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

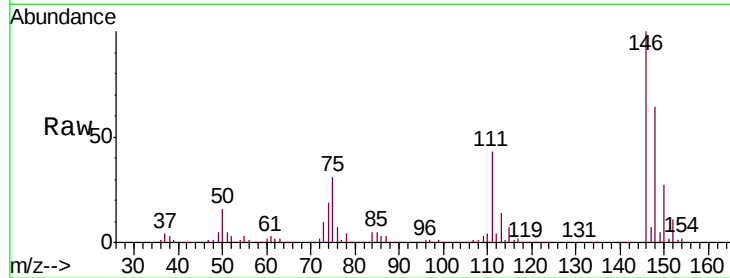
Tgt Ion: 146 Resp: 826899

Ion Ratio Lower Upper

146 100

111 42.9 34.1 51.1

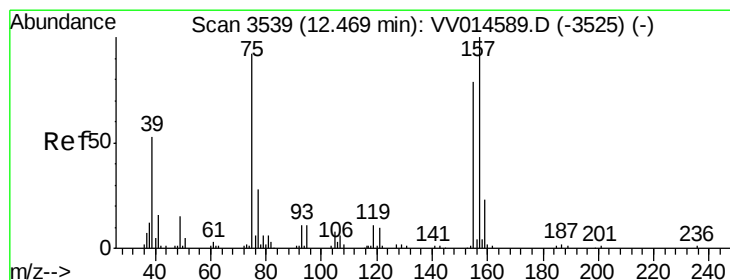
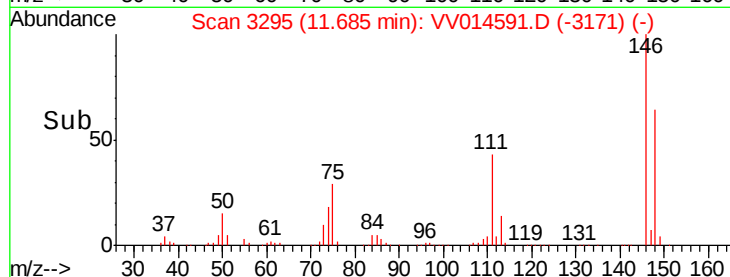
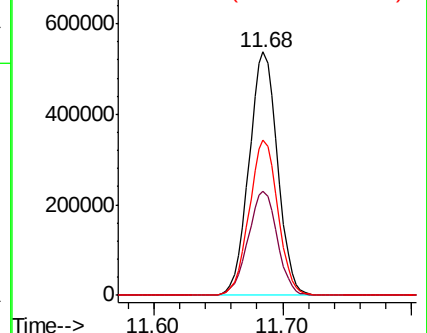
148 64.0 51.1 76.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 208.138 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

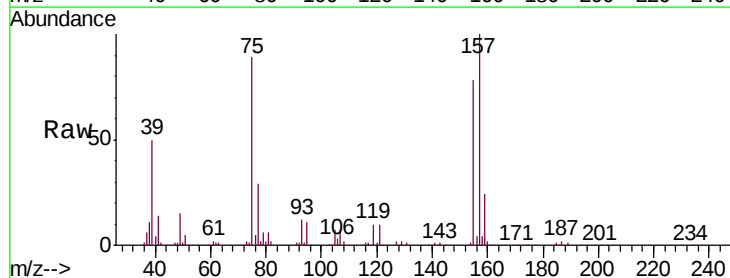
Tgt Ion: 75 Resp: 149588

Ion Ratio Lower Upper

75 100

155 87.8 69.4 104.0

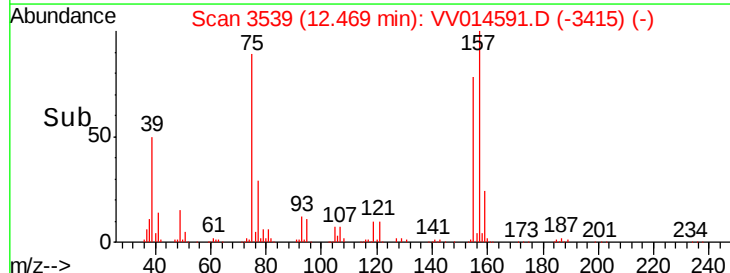
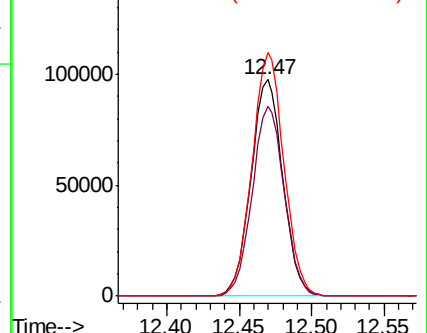
157 112.5 87.4 131.0

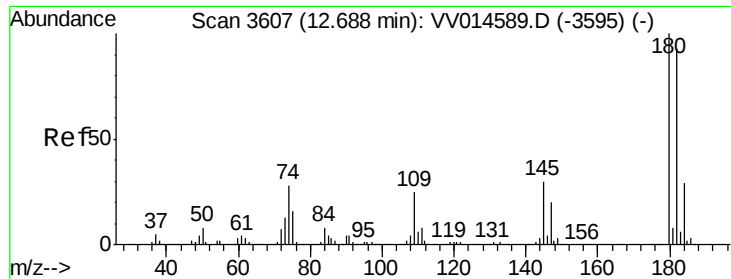


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

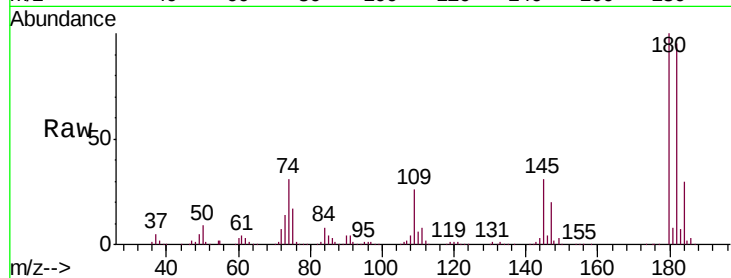




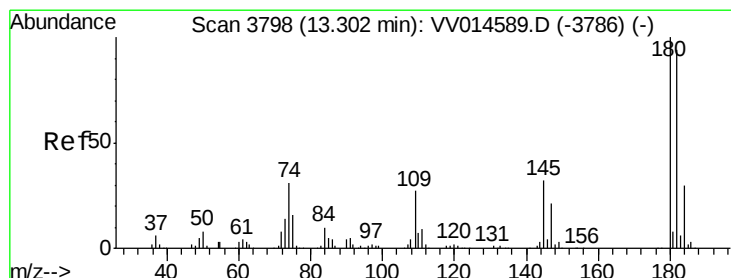
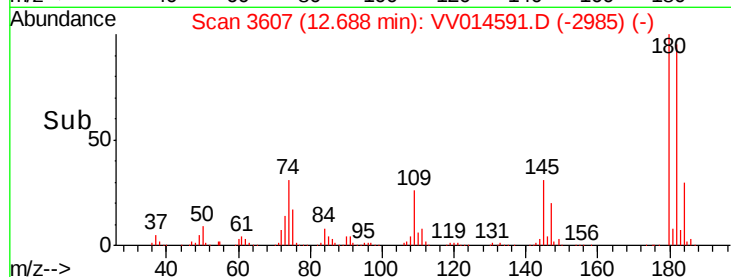
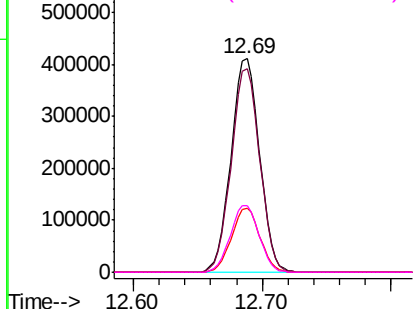
#69
 1,3,5-Trichlorobenzene
 Concen: 194.436 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD200206

Tgt Ion:180 Resp: 631622
 Ion Ratio Lower Upper
 180 100
 182 95.0 75.6 113.4
 184 29.8 23.4 35.2
 145 31.3 25.2 37.8

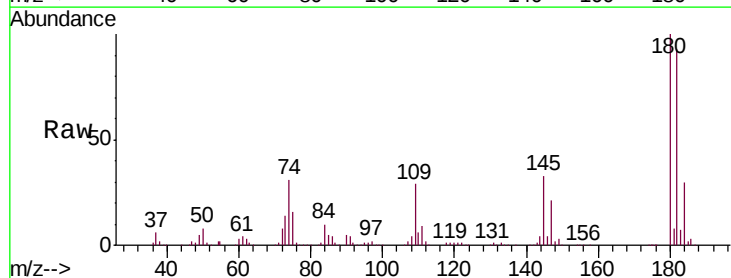


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

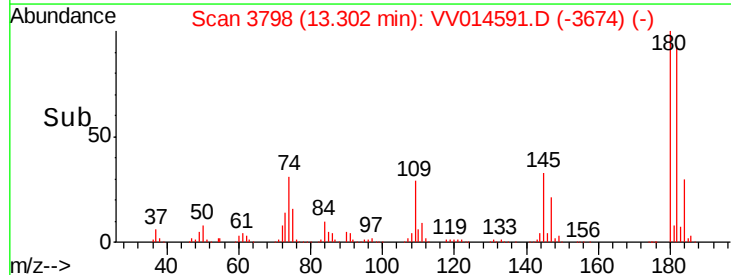
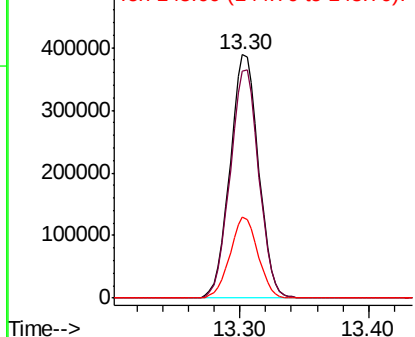


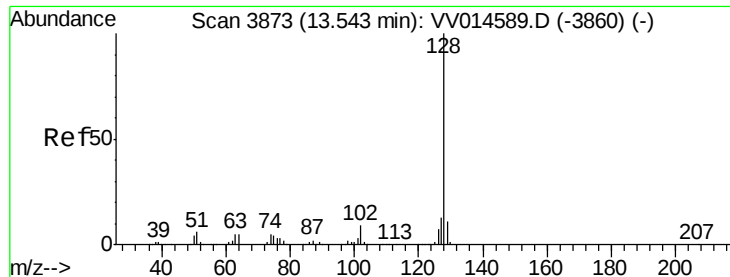
#70
 1,2,4-trichlorobenzene
 Concen: 200.922 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. -0.00 min
 Lab File: VV014591.D
 Acq: 17 Feb 2020 12:50

Tgt Ion:180 Resp: 597421
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.8 113.6
 145 32.6 25.5 38.3



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





#71

Naphthalene

Concen: 196.439 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. -0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

Instrument :

MSVOA_V

ClientSampleId :

VSTD200206

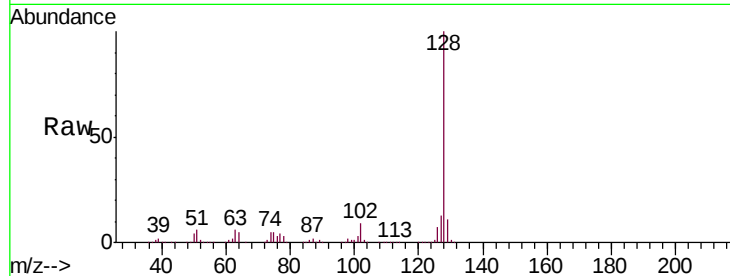
Tgt Ion:128 Resp: 1912850

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

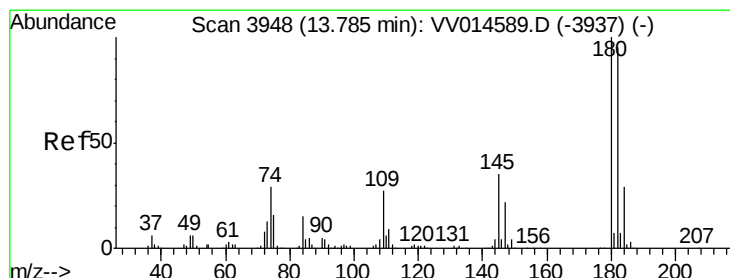
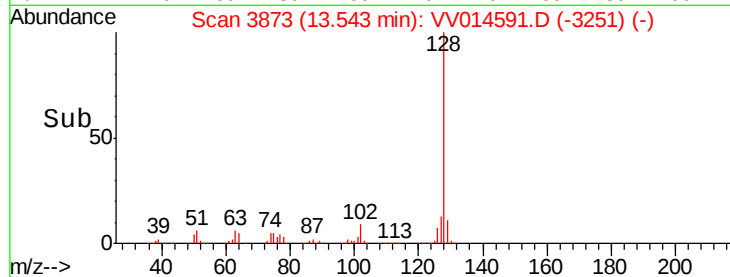
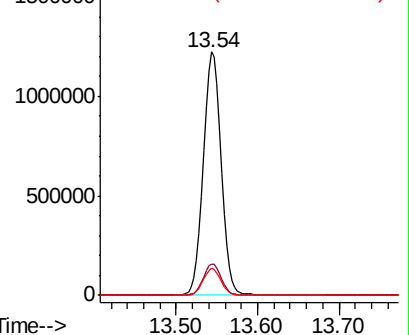
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 198.804 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014591.D

Acq: 17 Feb 2020 12:50

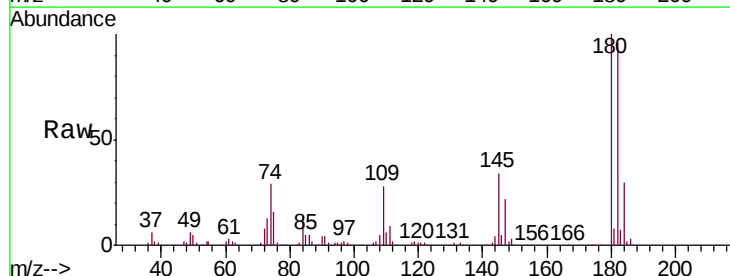
Tgt Ion:180 Resp: 575987

Ion Ratio Lower Upper

180 100

182 95.0 76.0 114.0

145 34.5 27.7 41.5



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

