

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110519\
 Data File : VV013488.D
 Acq On : 05 Nov 2019 15:38
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Quant Time: Nov 06 02:15:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR103119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 06 02:12:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	374337	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	401414	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	247542	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	141839	5.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.00%
7) Chloroethane-d5	1.58	69	121887	5.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.20%
11) 1,1-Dichloroethene-d2	2.13	63	259468	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.20%
20) 2-Butanone-d5	3.96	46	463139	54.18	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.36%
24) Chloroform-d	4.40	84	358346	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
26) 1,2-Dichloroethane-d4	5.08	65	178439	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
32) Benzene-d6	5.09	84	691533	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
36) 1,2-Dichloropropane-d6	6.11	67	222275	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.35	98	654400	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
43) trans-1,3-Dichloropropene-	7.66	79	82145	4.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.40%
46) 2-Hexanone-d5	8.13	63	306982	49.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.98%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	155344	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	259662	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	249657	5.589	ug/L 100
3) Chloromethane	1.25	50	220500	5.985	ug/L 100
5) Vinyl chloride	1.32	62	213473	5.725	ug/L 100
6) Bromomethane	1.53	94	98692	5.626	ug/L 100
8) Chloroethane	1.60	64	117703	5.761	ug/L 100
9) Trichlorofluoromethane	1.77	101	288784	5.835	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	158050	5.605	ug/L 100
12) 1,1-Dichloroethene	2.14	96	149745	5.672	ug/L 90
13) Acetone	2.23	43	217099	56.061	ug/L 99
14) Carbon disulfide	2.31	76	438372	5.353	ug/L 100
15) Methyl Acetate	2.47	43	77651	5.647	ug/L 96
16) Methylene chloride	2.53	84	193508	4.849	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	412055	5.250	ug/L 100
18) trans-1,2-Dichloroethene	2.78	96	194828	5.565	ug/L 98
19) 1,1-Dichloroethane	3.23	63	369050	5.785	ug/L 98
21) 2-Butanone	4.04	43	474222	54.201	ug/L 98
22) cis-1,2-Dichloroethene	3.96	96	200390	5.436	ug/L # 96

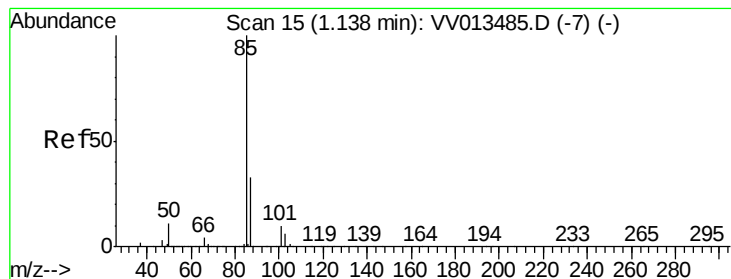
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110519\
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 QLast Update : Wed Nov 06 02:12:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	87212	5.297	ug/L	95
25) Chloroform	4.42	83	374856	5.328	ug/L	100
27) 1,2-Dichloroethane	5.17	62	218753	5.528	ug/L	100
29) 1,1,1-Trichloroethane	4.65	97	314332	5.524	ug/L	99
30) Cyclohexane	4.72	56	324486	5.276	ug/L	97
31) Carbon tetrachloride	4.87	117	281705	5.565	ug/L	99
33) Benzene	5.14	78	806582	5.652	ug/L	100
34) Trichloroethene	5.96	95	209072	5.395	ug/L	98
35) Methylcyclohexane	6.17	83	325164	5.411	ug/L	98
37) 1,2-Dichloropropane	6.22	63	199342	5.575	ug/L	99
38) Bromodichloromethane	6.55	83	245566	5.307	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	272806	5.442	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	1152409	50.455	ug/L	99
42) Toluene	7.42	91	851090	5.734	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	210995	5.381	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	131026	5.157	ug/L	98
47) Tetrachloroethene	8.01	164	183453	5.512	ug/L	100
48) 2-Hexanone	8.18	43	842742	51.100	ug/L	97
49) Dibromochloromethane	8.29	129	166910	5.395	ug/L	98
50) 1,2-Dibromoethane	8.39	107	122270	5.106	ug/L #	100
51) Chlorobenzene	8.92	112	526068	5.462	ug/L	100
52) Ethylbenzene	9.05	91	899893	5.708	ug/L	99
53) m,p-xylene	9.18	106	348853	5.781	ug/L	97
54) o-xylene	9.58	106	330778	5.720	ug/L	98
55) Styrene	9.60	104	577293	5.866	ug/L	98
56) Isopropylbenzene	9.97	105	886194	5.766	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	146127	4.978	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	111364	4.811	ug/L	97
61) Bromoform	9.77	173	91856	5.047	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	437357	5.465	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	435957	5.368	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	410390	5.550	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	19430	4.319	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	351408	5.452	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	265566	4.937	ug/L	99
69) Naphthalene	13.55	128	346307	4.390	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	242203	4.887	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.589 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

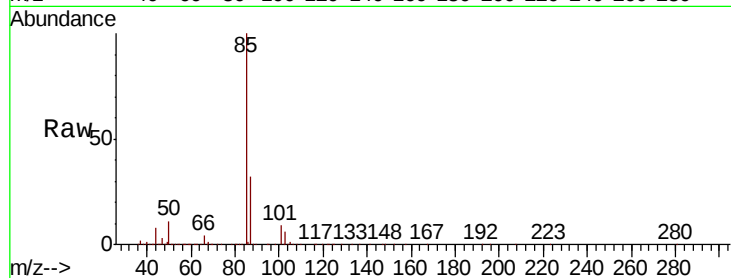
VSTD00547

Tot Ion: 85 Resp: 249657

Ion Ratio Lower Upper

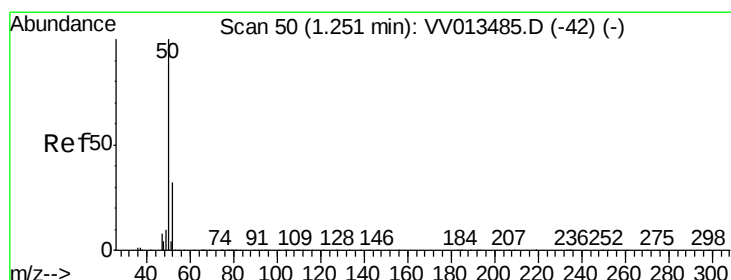
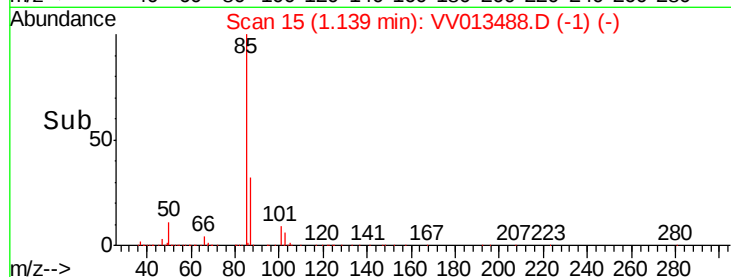
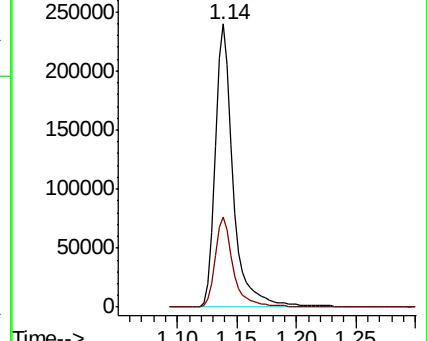
85 100

87 32.3 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.985 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013488.D

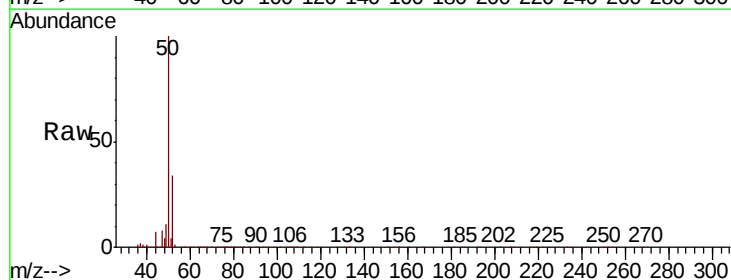
Acq: 05 Nov 2019 15:38

Tgt Ion: 50 Resp: 220500

Ion Ratio Lower Upper

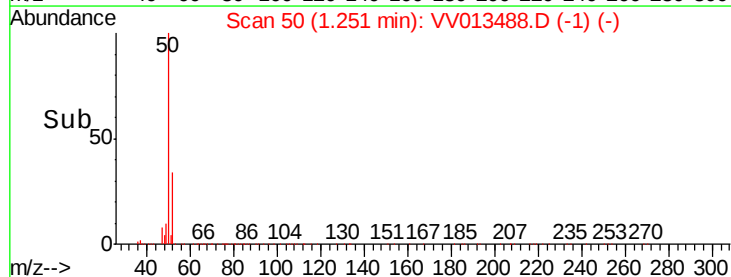
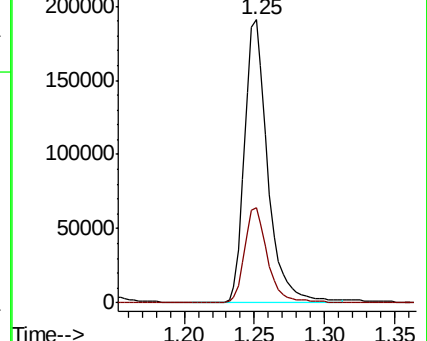
50 100

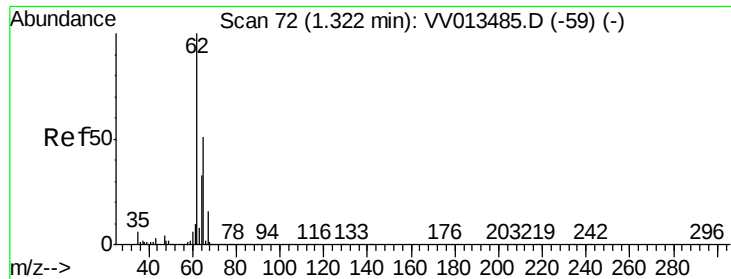
52 33.8 23.4 43.6



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 5.725 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

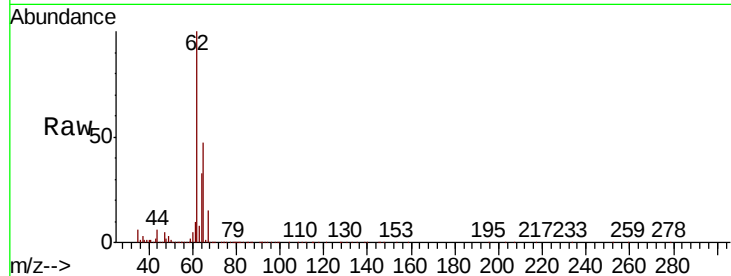
VSTD00547

Tot Ion: 62 Resp: 213473

Ion Ratio Lower Upper

62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

200000

150000

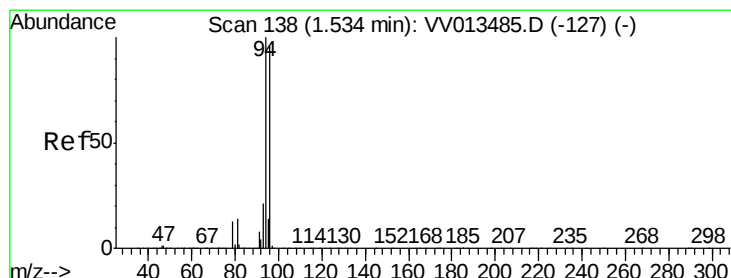
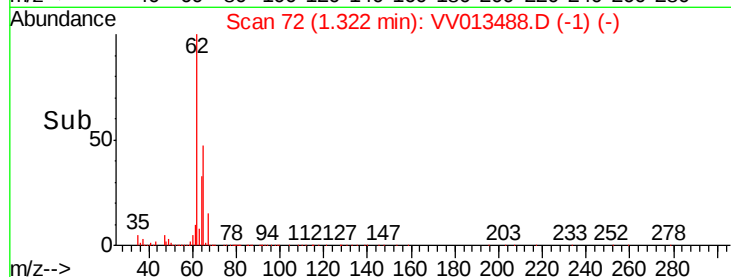
100000

50000

0

Time-->

1.25 1.30 1.35 1.40 1.45



#6

Bromomethane

Concen: 5.626 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013488.D

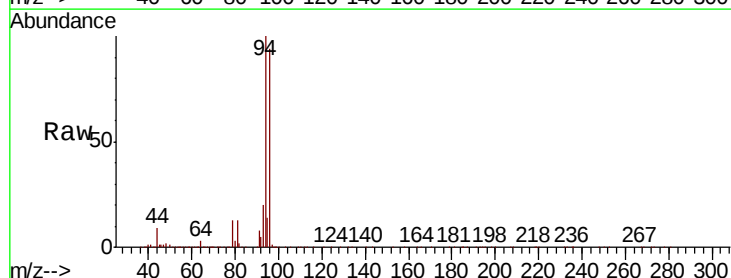
Acq: 05 Nov 2019 15:38

Tgt Ion: 94 Resp: 98692

Ion Ratio Lower Upper

94 100

96 93.6 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

80000

60000

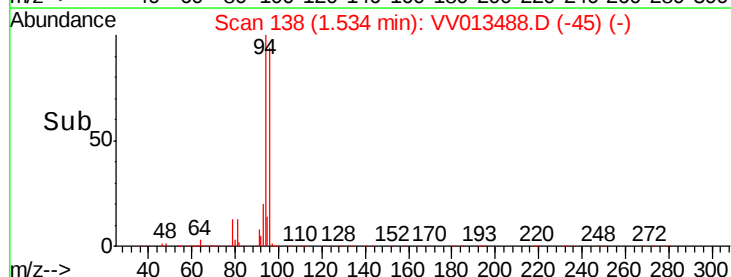
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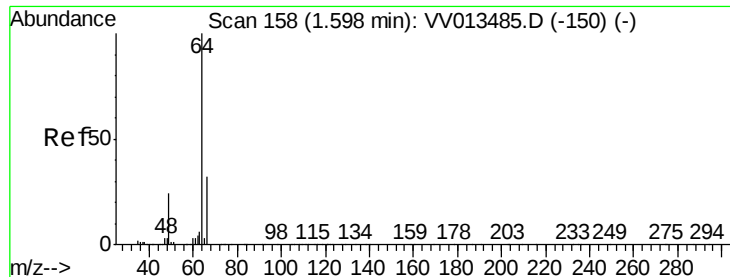
20000

0

Time-->

1.45 1.50 1.55 1.60 1.65





#8

Chloroethane

Concen: 5.761 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

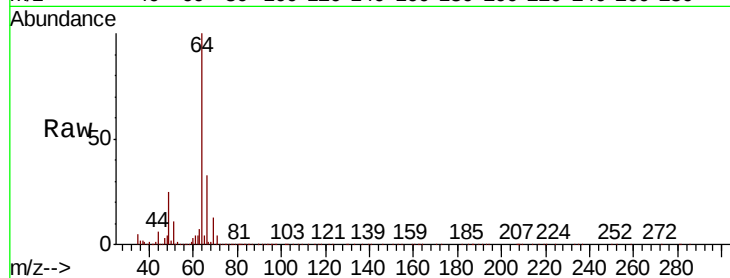
VSTD00547

Tot Ion: 64 Resp: 117703

Ion Ratio Lower Upper

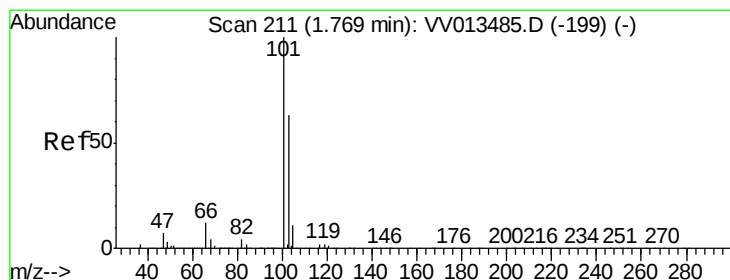
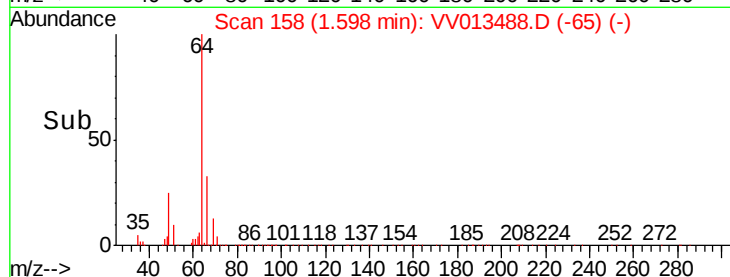
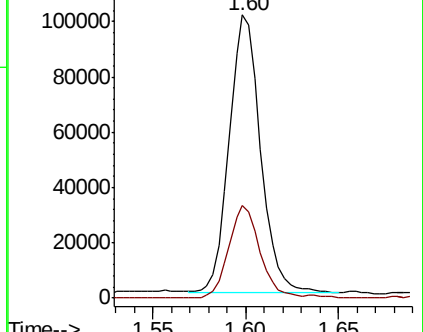
64 100

66 32.7 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV013488.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV013488.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 5.835 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV013488.D

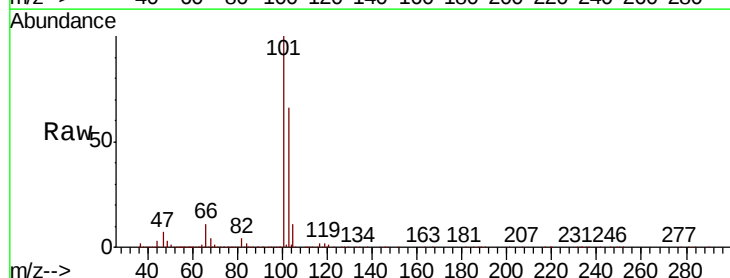
Acq: 05 Nov 2019 15:38

Tgt Ion: 101 Resp: 288784

Ion Ratio Lower Upper

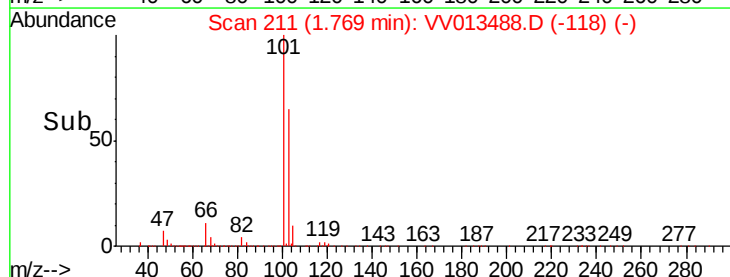
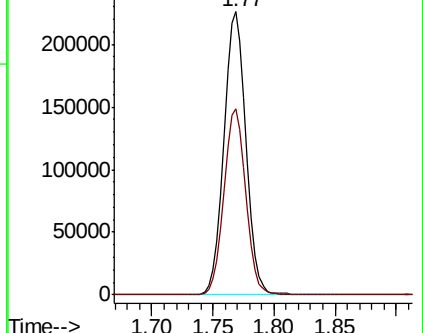
101 100

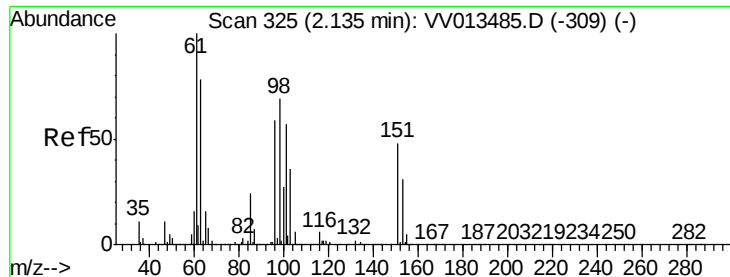
103 65.3 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VV013488.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV013488.D (-199) (-)





#10

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

Concen: 5.605 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

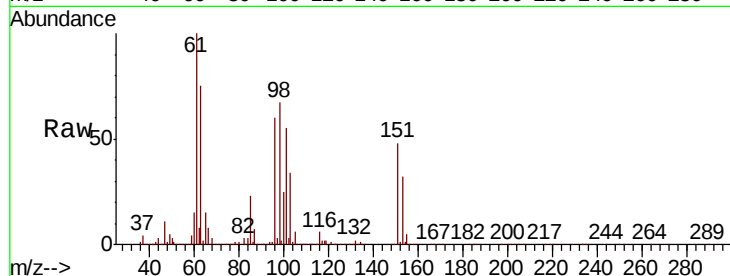
Tot Ion:101 Resp: 158050

Ion Ratio Lower Upper

101 100

85 41.2 33.1 49.7

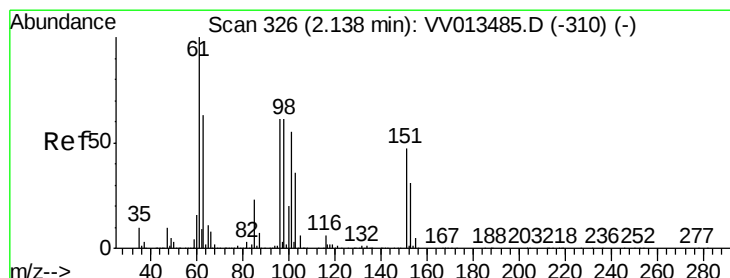
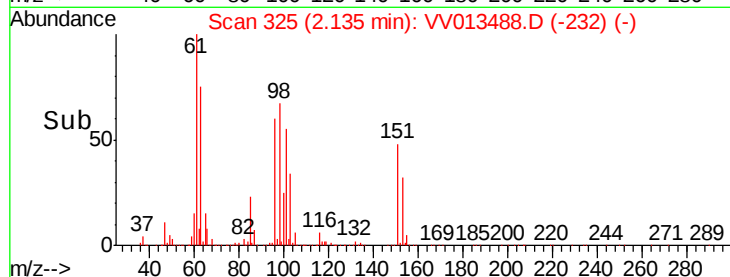
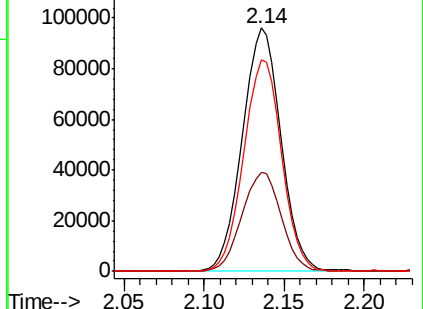
151 85.6 68.8 103.2



Abundance Ion 101.00 (100.70 to 101.70): VV013488.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV013488.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV013488.D (-309) (-)



#12

1,1-Dichloroethene

Concen: 5.672 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

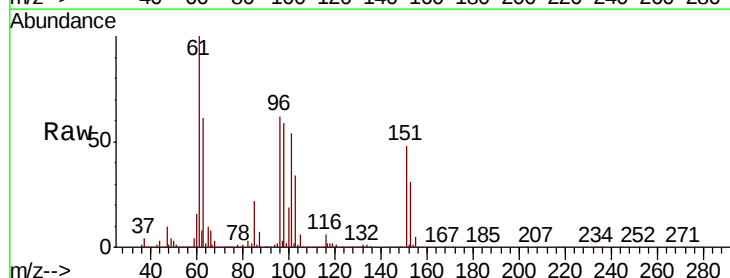
Tgt Ion: 96 Resp: 149745

Ion Ratio Lower Upper

96 100

61 162.0 117.1 217.5

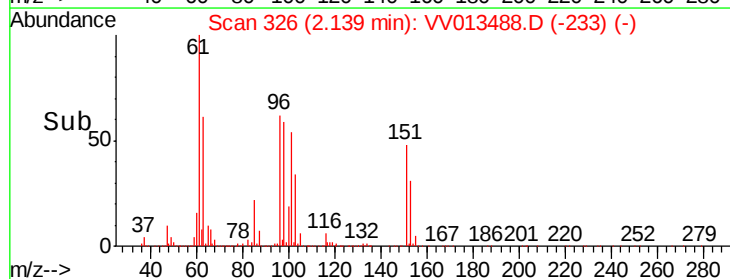
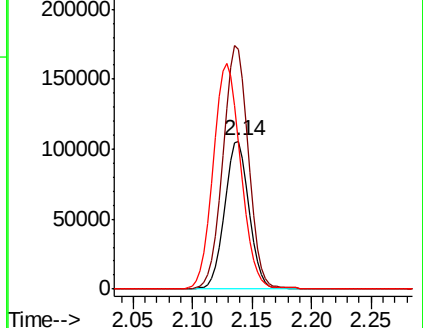
63 99.0 84.1 156.3

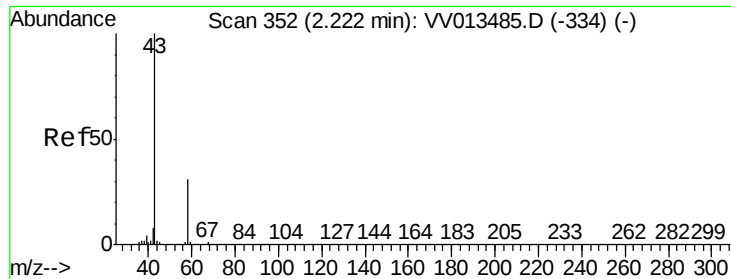


Abundance Ion 96.00 (95.70 to 96.70): VV013488.D (-310) (-)

Ion 61.05 (60.75 to 61.75): VV013488.D (-310) (-)

Ion 63.00 (62.70 to 63.70): VV013488.D (-310) (-)





#13

Acetone

Concen: 56.061 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.01 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

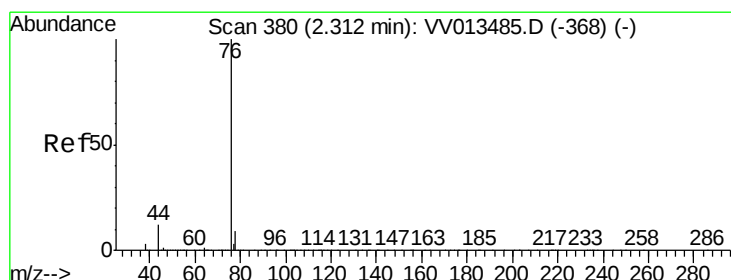
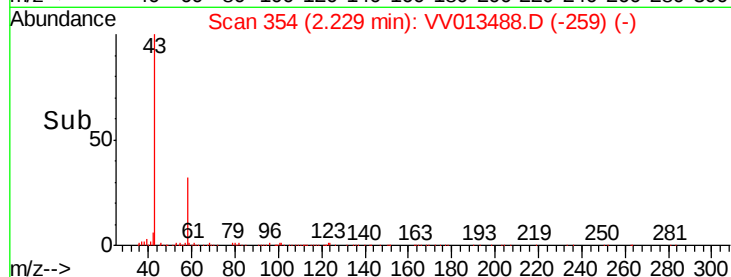
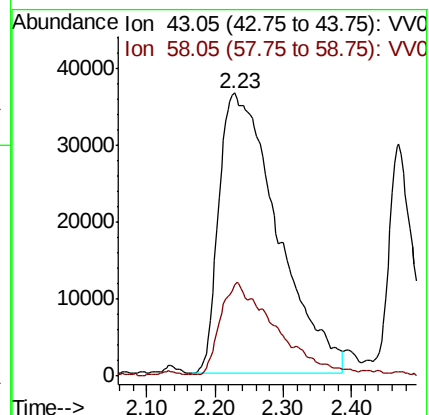
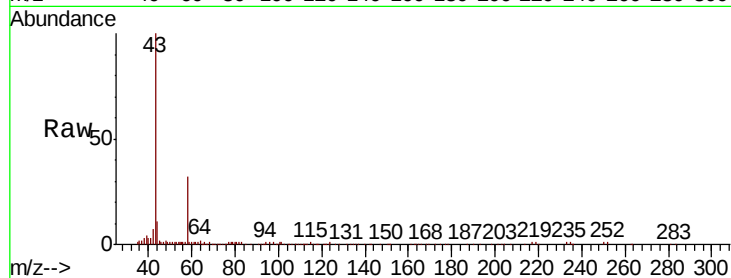
VSTD00547

Tot Ion: 43 Resp: 217099

Ion Ratio Lower Upper

43 100

58 29.5 0.0 58.0



#14

Carbon disulfide

Concen: 5.353 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV013488.D

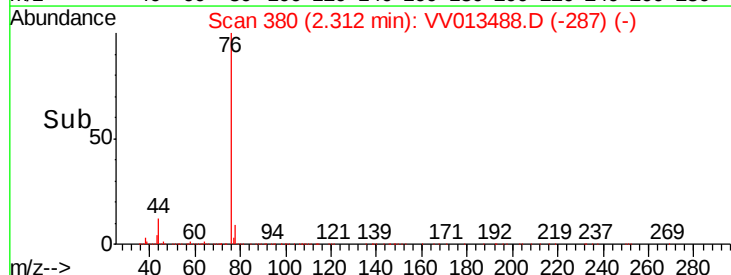
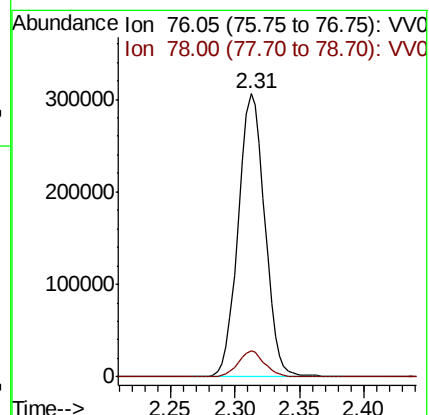
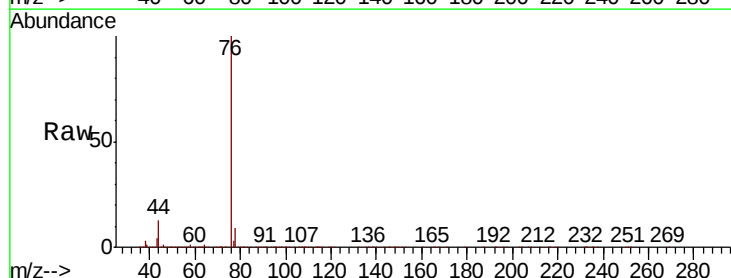
Acq: 05 Nov 2019 15:38

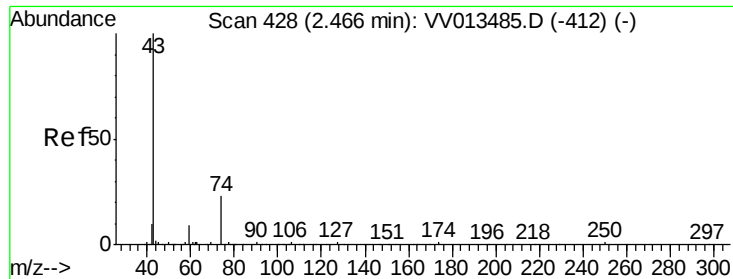
Tgt Ion: 76 Resp: 438372

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0





#15

Methyl Acetate

Concen: 5.647 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

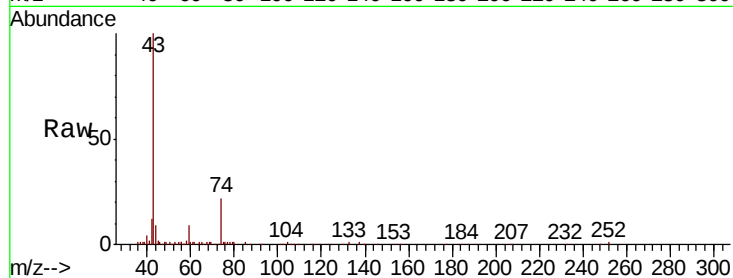
VSTD00547

Tot Ion: 43 Resp: 77651

Ion Ratio Lower Upper

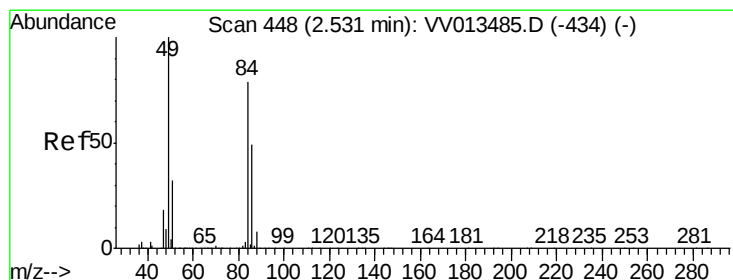
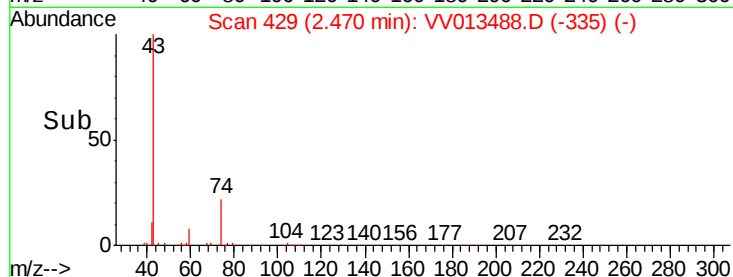
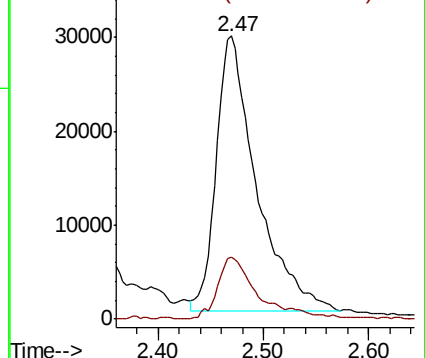
43 100

74 20.3 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 4.849 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

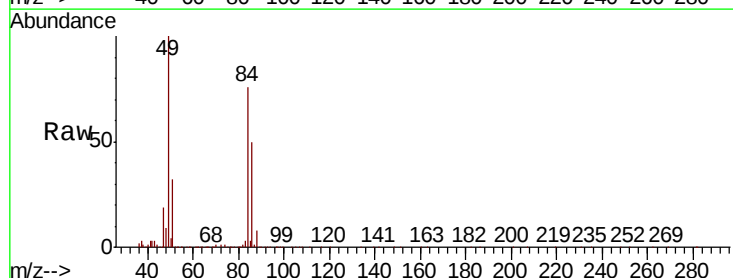
Tgt Ion: 84 Resp: 193508

Ion Ratio Lower Upper

84 100

86 65.5 45.3 84.1

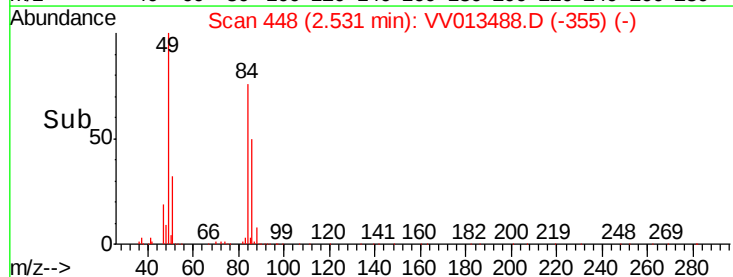
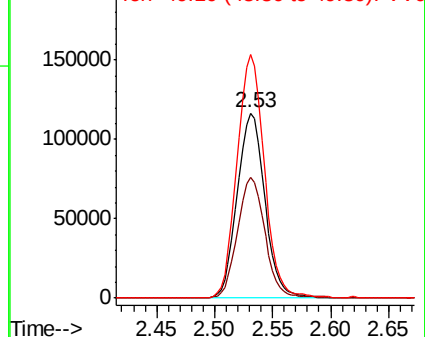
49 131.7 90.4 168.0

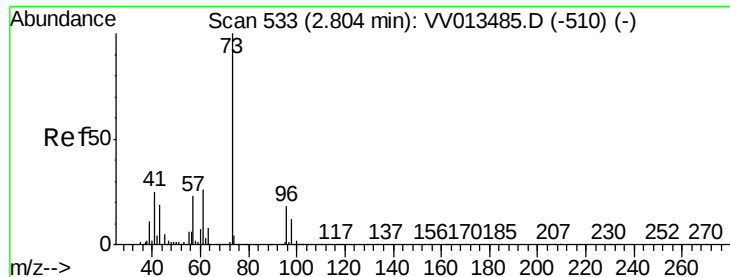


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



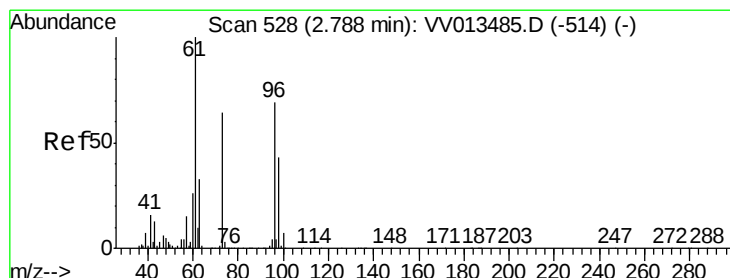
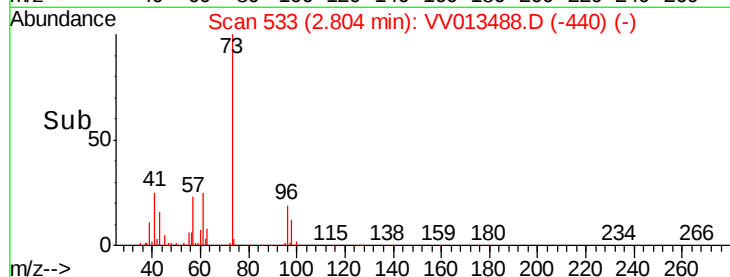
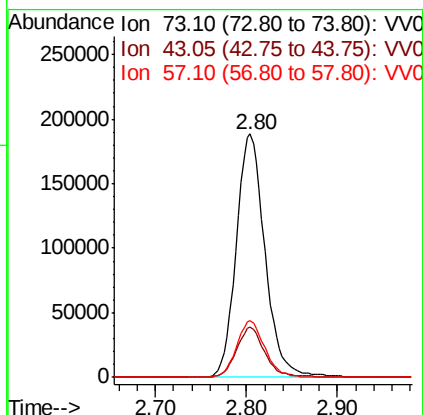
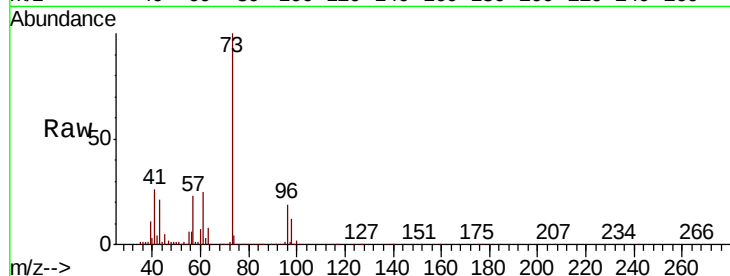


#17

Methyl tert-butyl Ether
 Concen: 5.250 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

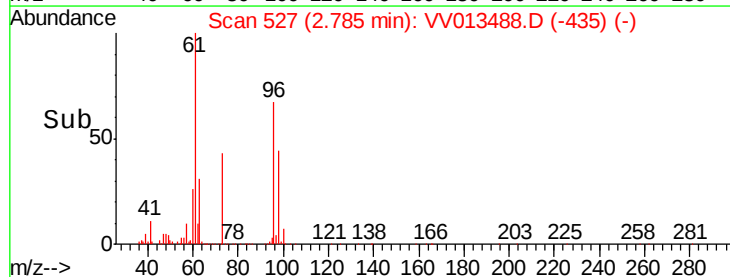
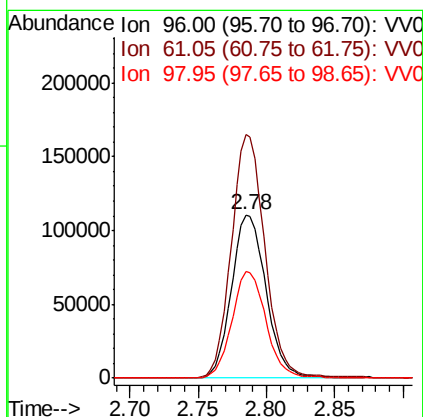
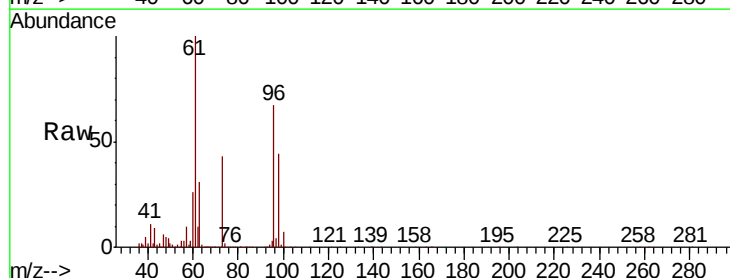
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.8	15.9	23.9
57	22.7	18.5	27.7

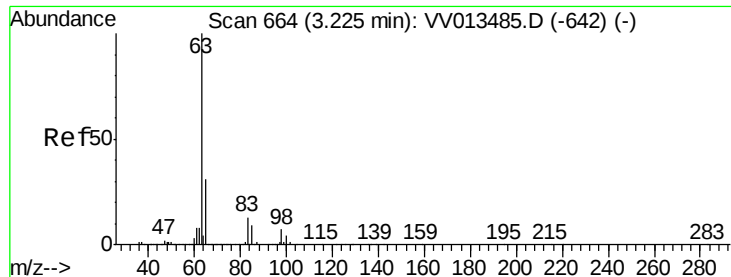


#18

trans-1,2-Dichloroethene
 Concen: 5.565 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.1	102.2	189.8
98	65.4	44.9	83.5

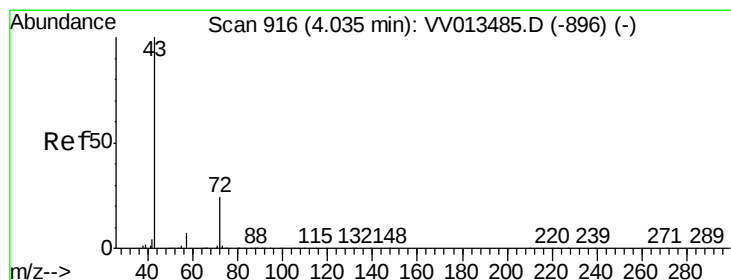
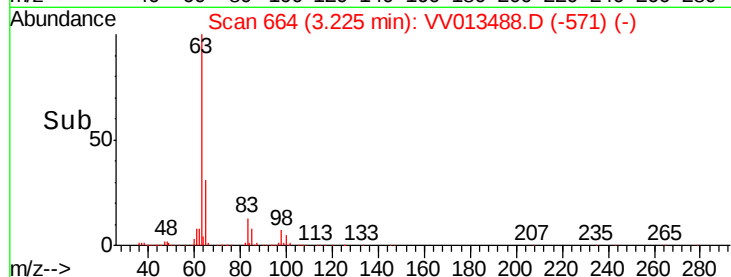
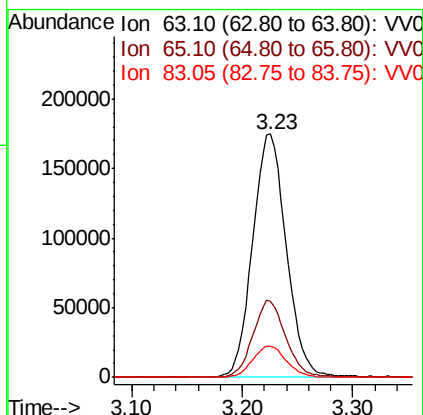
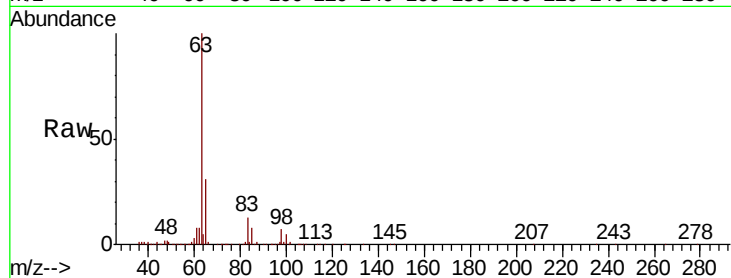




#19
 1,1-Dichloroethane
 Concen: 5.785 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

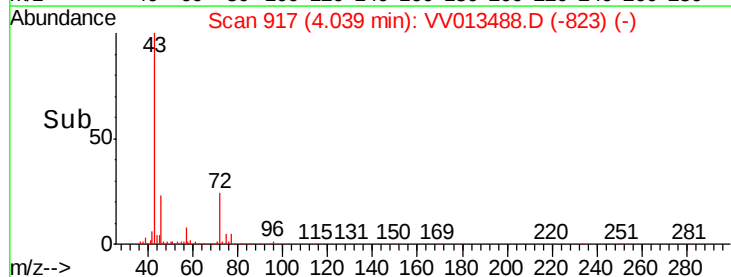
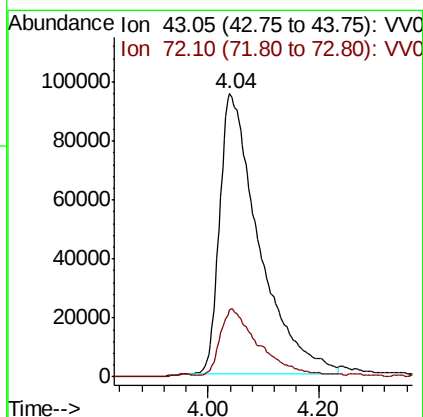
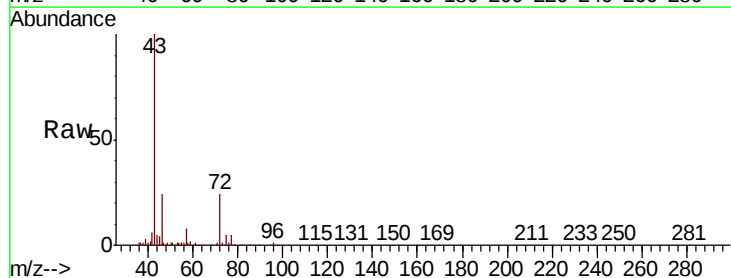
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

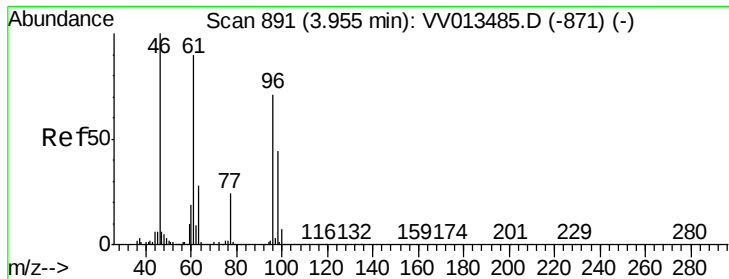
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	22.5	41.7
83	12.6	9.1	16.9



#21
 2-Butanone
 Concen: 54.201 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	10.9	32.7



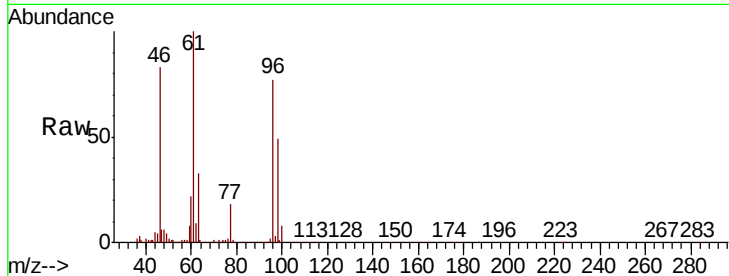


#22

cis-1,2-Dichloroethene
 Concen: 5.436 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.0	94.2	175.0
68	0.0	0.1	0.3#

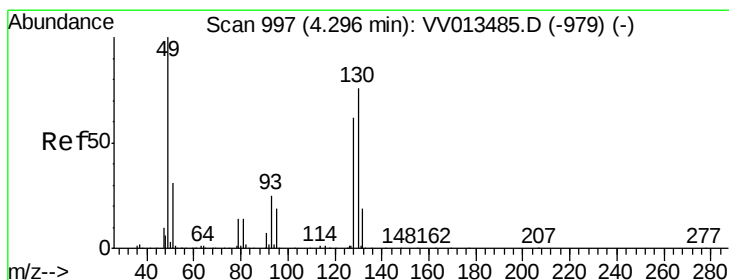
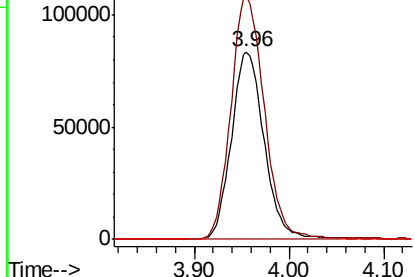
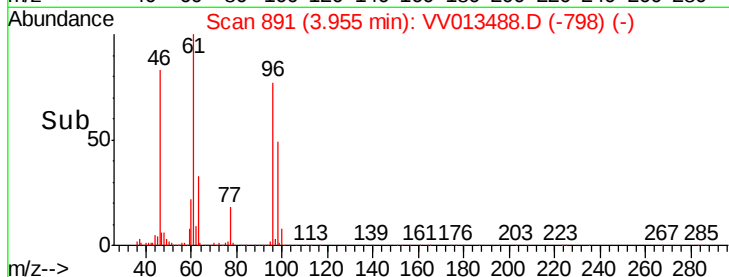


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

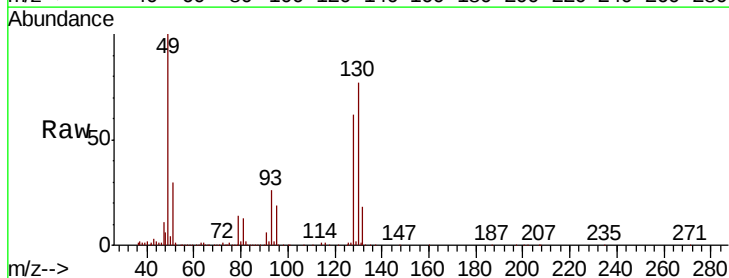
Ion 68.15 (67.85 to 68.85): VV0



#23

Bromochloromethane
 Concen: 5.297 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion	Ratio	Lower	Upper
128	100		
49	161.3	118.8	220.6
130	123.5	89.0	165.4
51	48.9	44.2	66.2



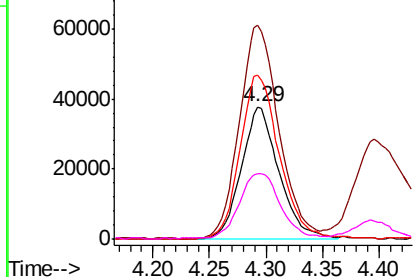
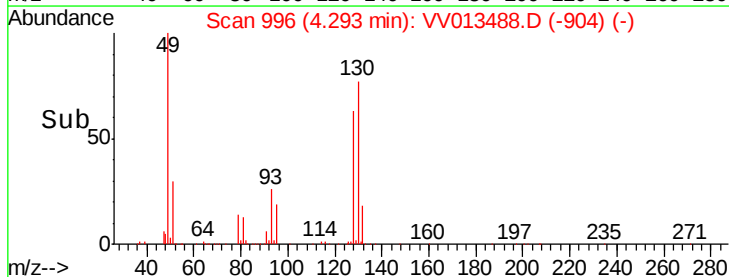
Abundance

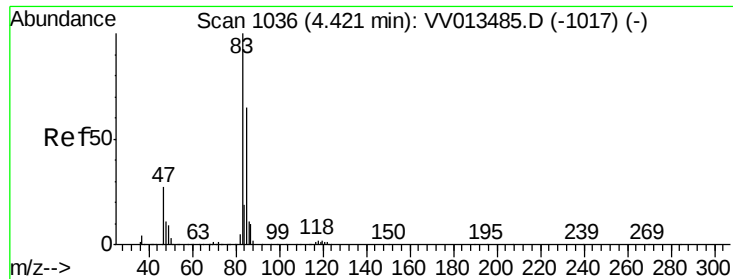
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VV0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VV0

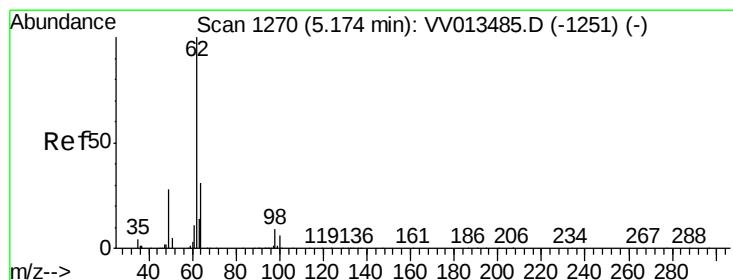
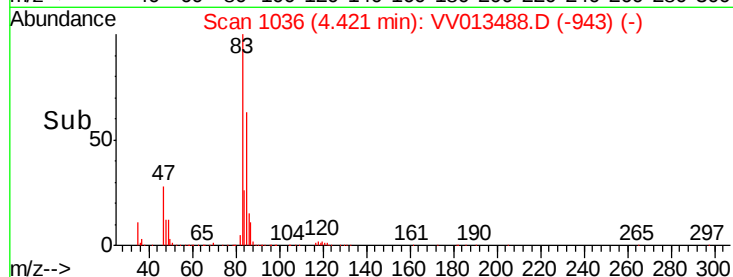
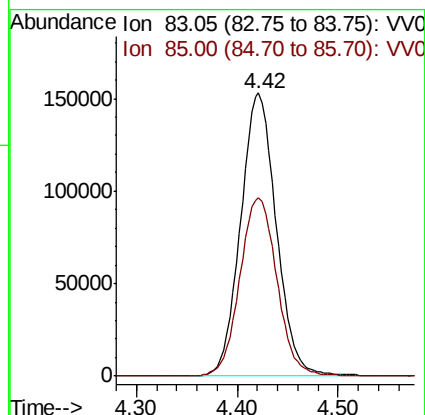
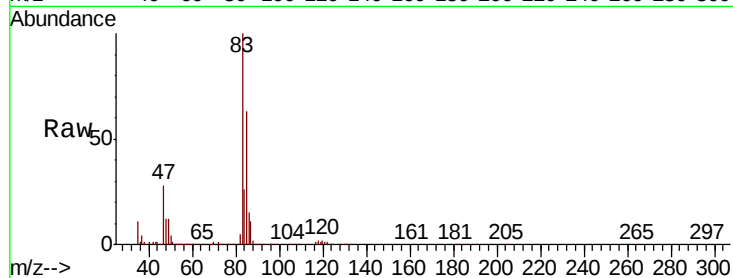




#25
Chloroform
Concen: 5.328 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

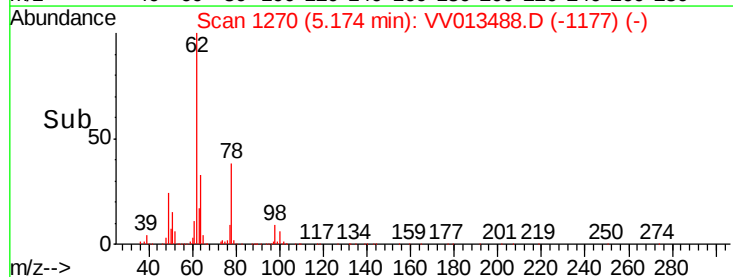
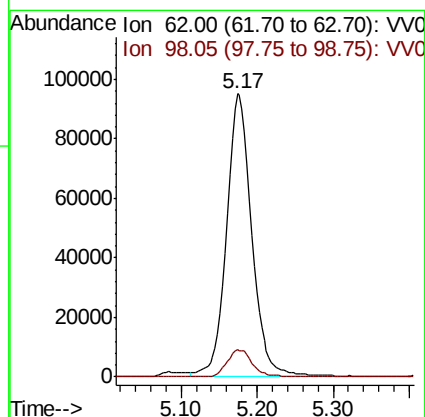
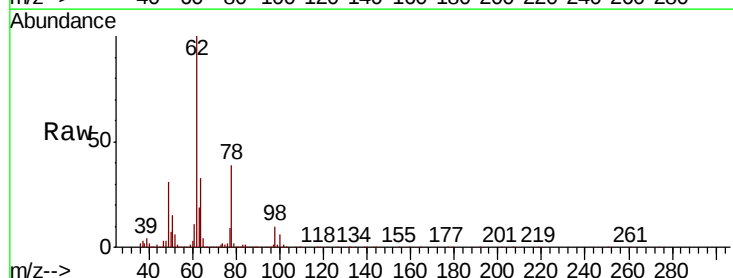
Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

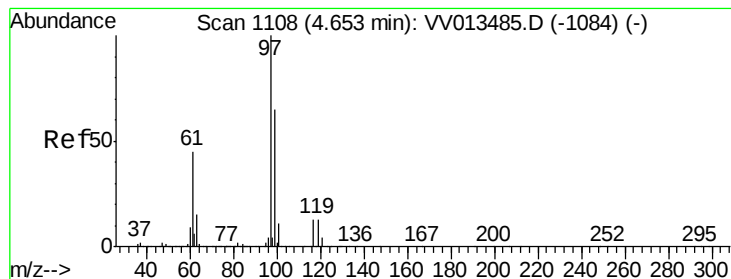
Tot Ion: 83 Resp: 374856
Ion Ratio Lower Upper
83 100
85 63.2 44.1 81.9



#27
1,2-Dichloroethane
Concen: 5.528 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Tgt Ion: 62 Resp: 218753
Ion Ratio Lower Upper
62 100
98 9.5 7.7 11.5





#29

1,1,1-Trichloroethane

Concen: 5.524 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

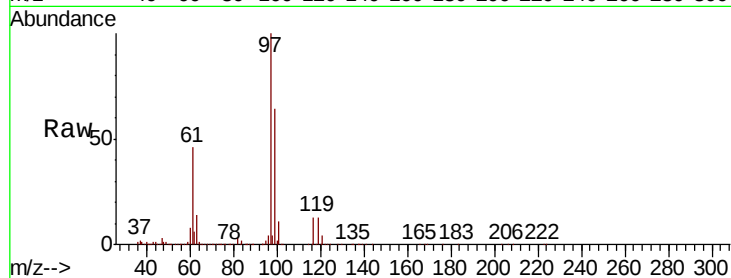
Tot Ion: 97 Resp: 314332

Ion Ratio Lower Upper

97 100

99 63.7 51.5 77.3

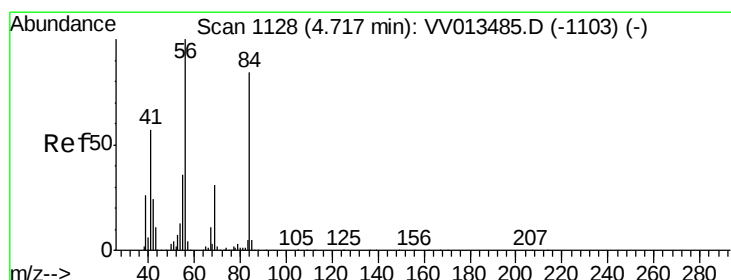
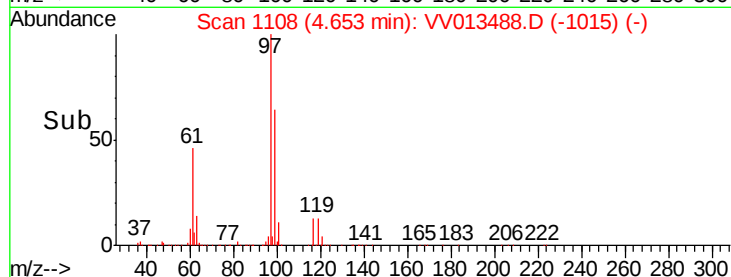
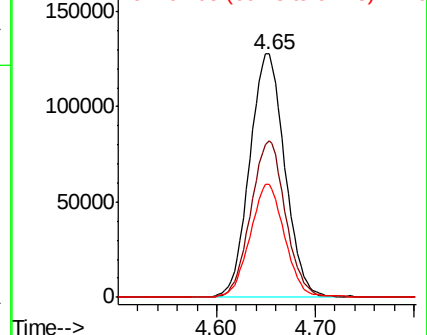
61 45.2 35.8 53.8



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 5.276 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

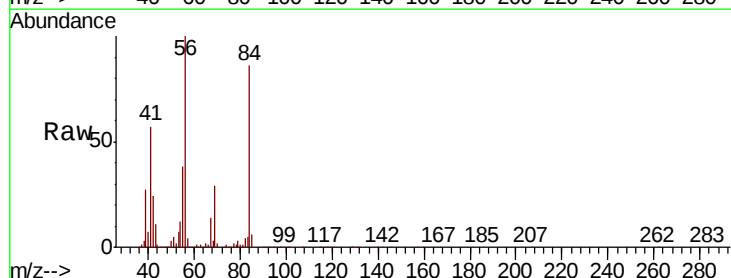
Tgt Ion: 56 Resp: 324486

Ion Ratio Lower Upper

56 100

69 29.6 23.0 34.6

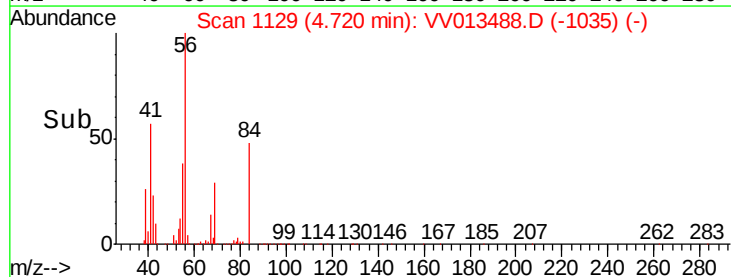
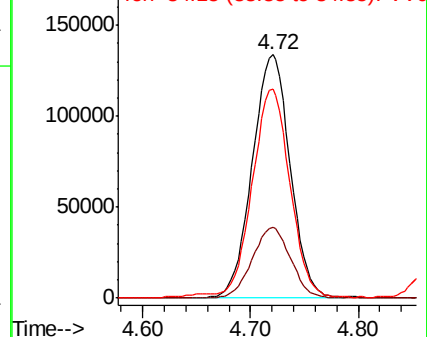
84 86.0 66.6 100.0

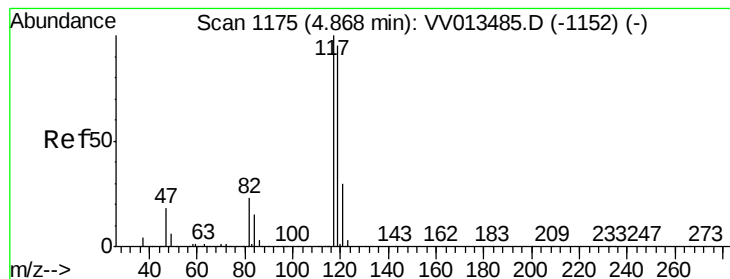


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 5.565 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

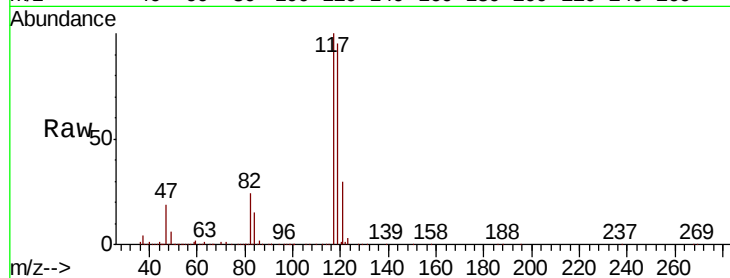
VSTD00547

Tot Ion:117 Resp: 281705

Ion Ratio Lower Upper

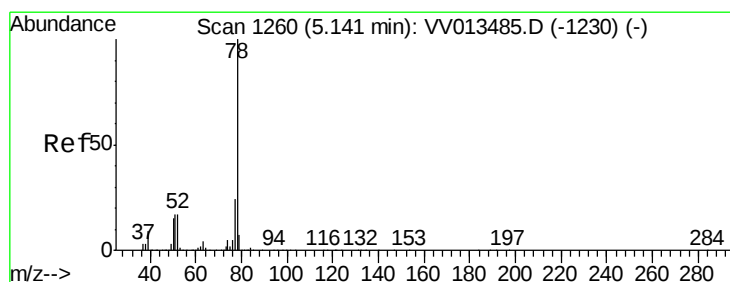
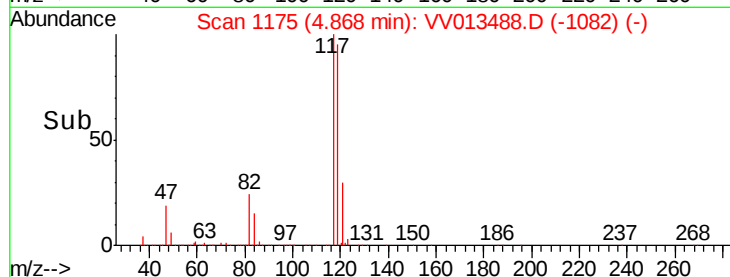
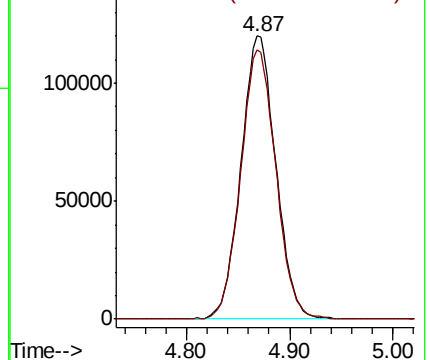
117 100

119 95.2 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.652 ug/L

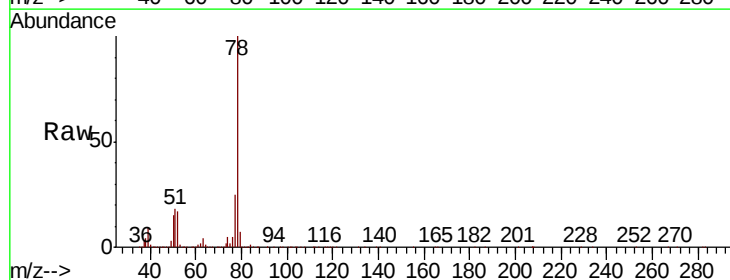
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

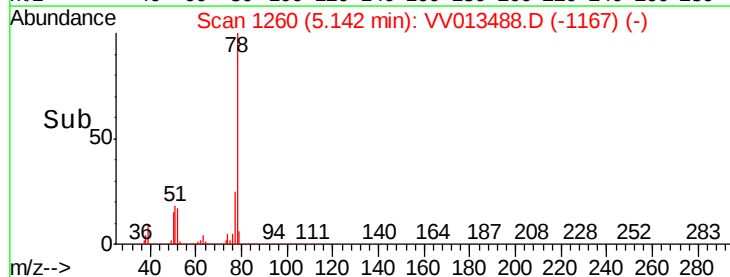
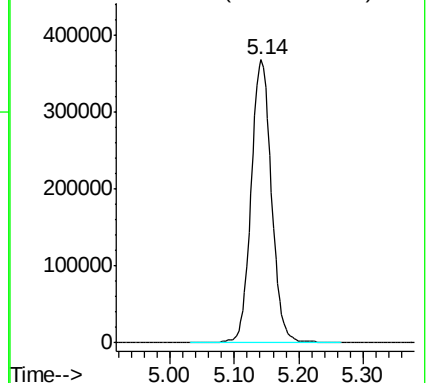
Lab File: VV013488.D

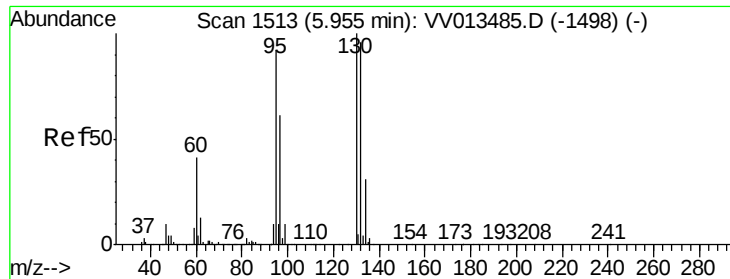
Acq: 05 Nov 2019 15:38

Tgt Ion: 78 Resp: 806582



Abundance Ion 78.10 (77.80 to 78.80): VV0

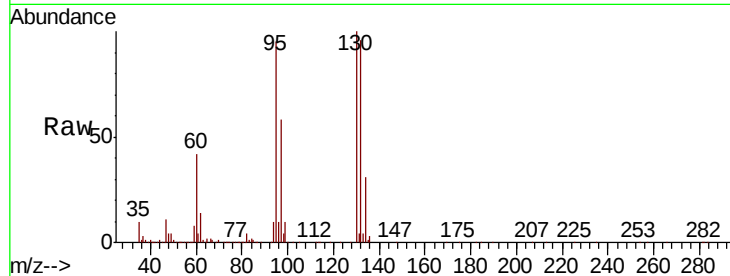




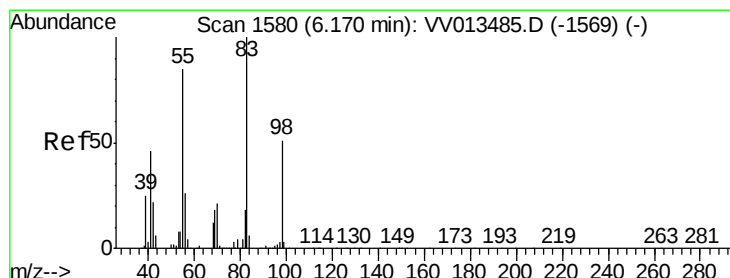
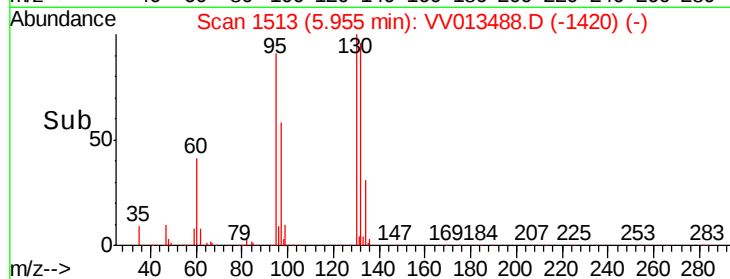
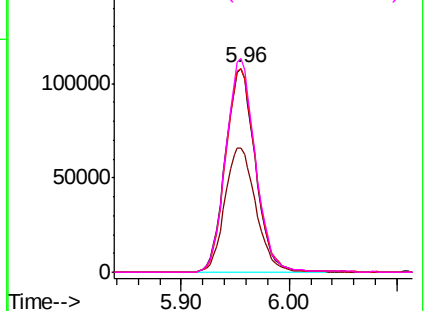
#34
 Trichloroethene
 Concen: 5.395 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tot Ion:	95	Resp:	209072
Ion	Ratio	Lower	Upper
95	100		
97	61.1	44.2	82.2
132	100.2	68.4	127.0
130	104.9	72.9	135.5

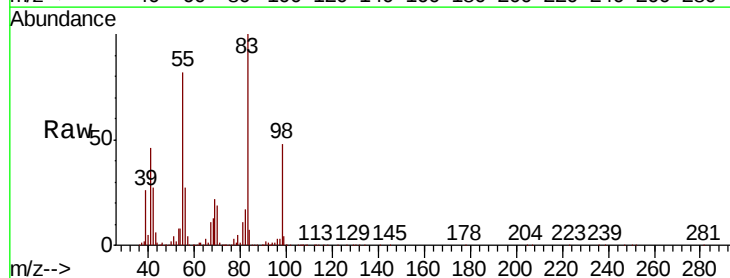


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

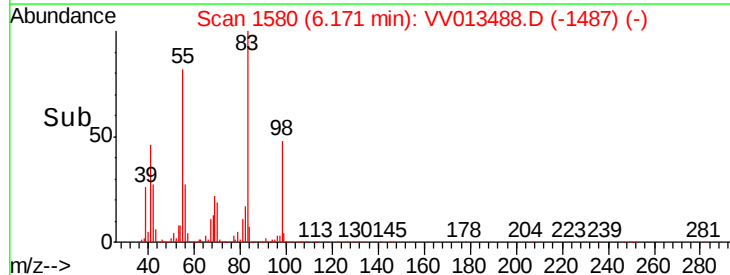
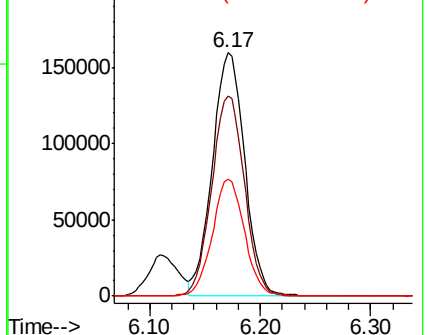


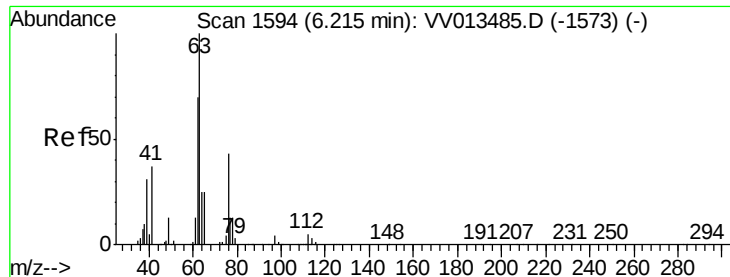
#35
 Methylcyclohexane
 Concen: 5.411 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion:	83	Resp:	325164
Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.6	96.8
98	47.2	39.1	58.7



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 5.575 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

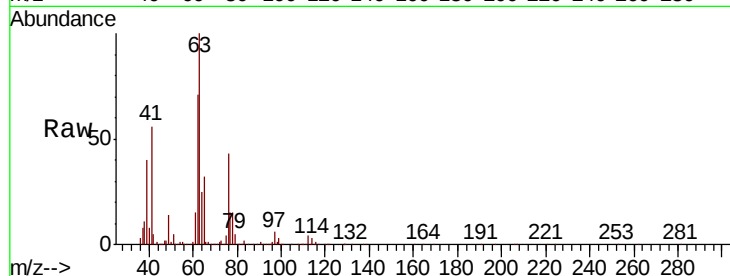
VSTD00547

Tot Ion: 63 Resp: 199342

Ion Ratio Lower Upper

63 100

112 4.4 3.8 5.8

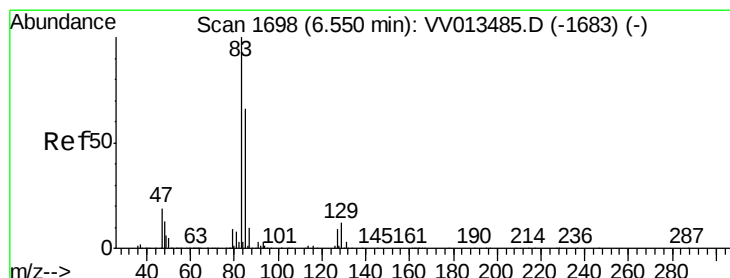
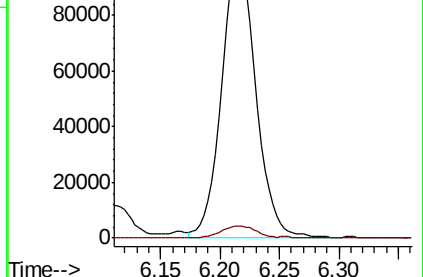
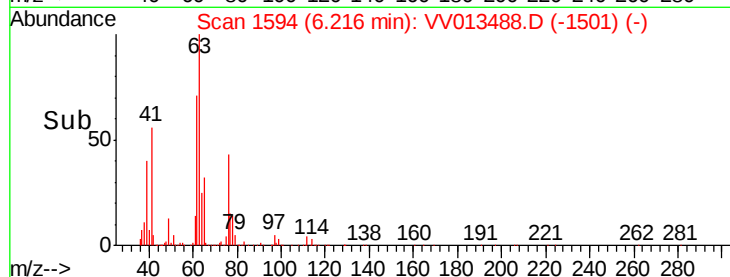


Abundance Ion 63.10 (62.80 to 63.80): VV013488.D (-1573) (-)

Ion 112.10 (111.80 to 112.80): VV013488.D (-1573) (-)

6.22

Time-->



#38

Bromodichloromethane

Concen: 5.307 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

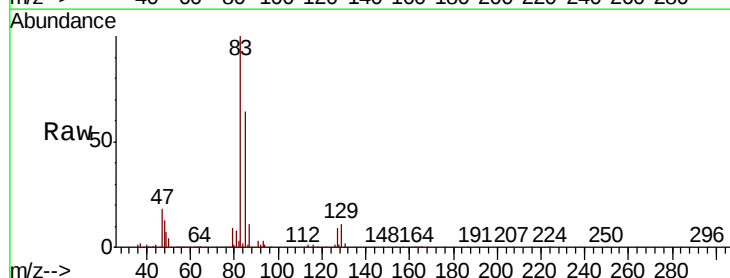
Tgt Ion: 83 Resp: 245566

Ion Ratio Lower Upper

83 100

85 63.6 45.1 83.9

127 8.7 7.0 10.4



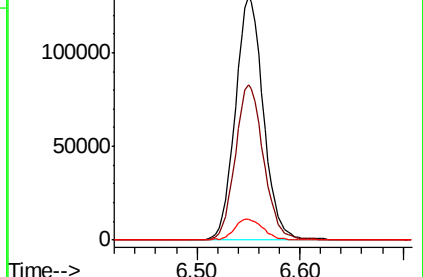
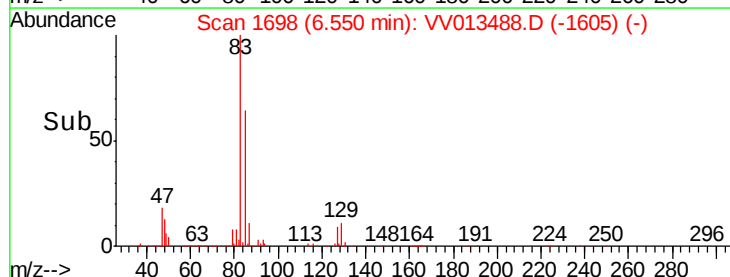
Abundance Ion 82.95 (82.65 to 83.65): VV013488.D (-1683) (-)

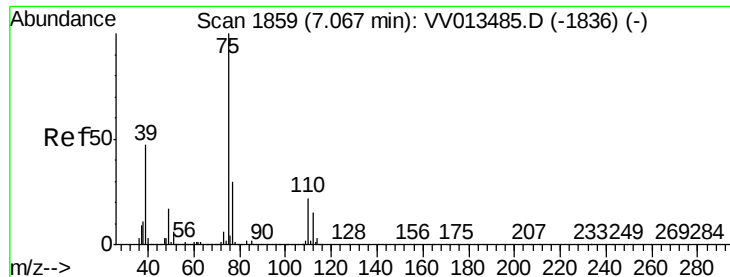
Ion 85.00 (84.70 to 85.70): VV013488.D (-1683) (-)

Ion 126.90 (126.60 to 127.60): VV013488.D (-1683) (-)

6.55

Time-->





#39

cis-1,3-Dichloropropene

Concen: 5.442 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

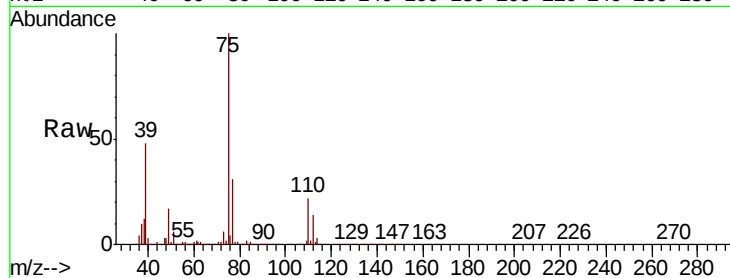
VSTD00547

Tot Ion: 75 Resp: 272806

Ion Ratio Lower Upper

75 100

77 31.1 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.07

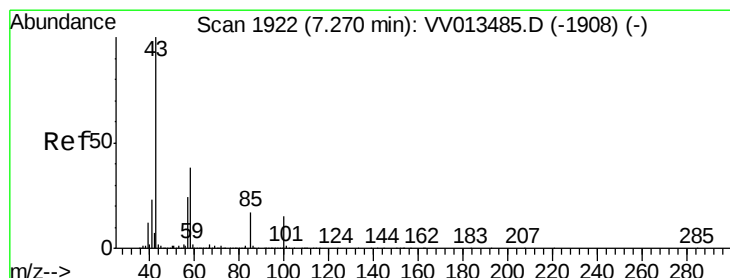
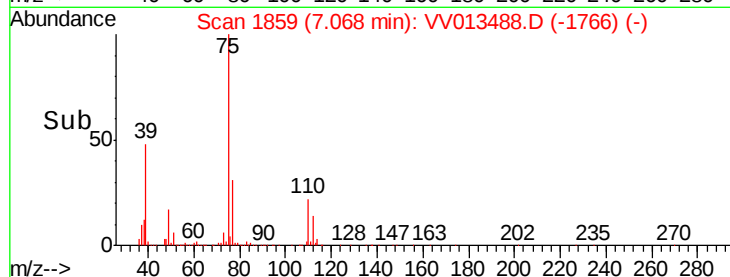
150000

100000

50000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 50.455 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

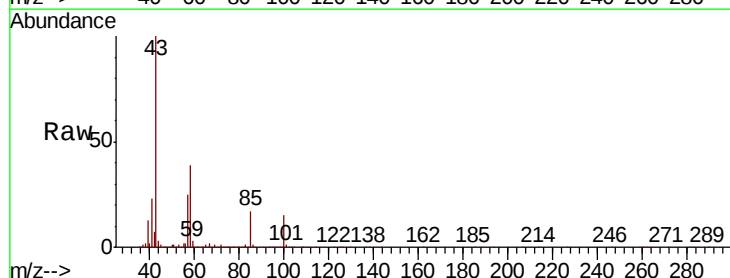
Tgt Ion: 43 Resp: 1152409

Ion Ratio Lower Upper

43 100

58 38.0 30.9 46.3

100 14.7 11.7 17.5



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0

800000

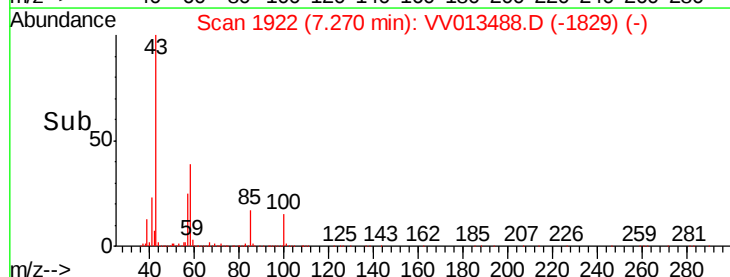
600000

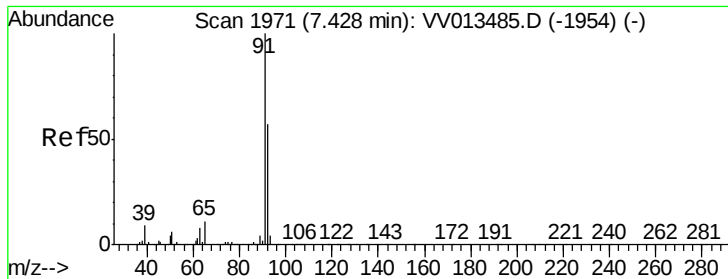
400000

200000

0

Time-->





#42

Toluene

Concen: 5.734 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

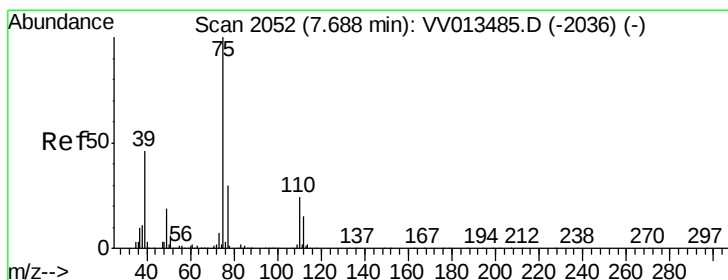
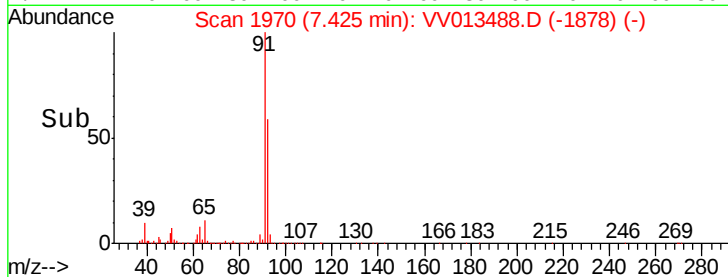
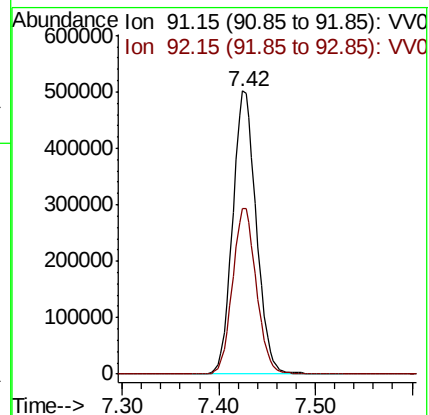
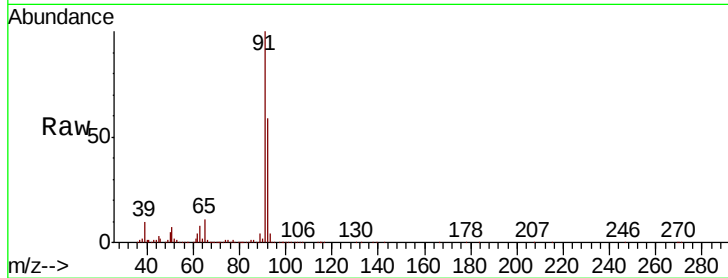
VSTD00547

Tot Ion: 91 Resp: 851090

Ion Ratio Lower Upper

91 100

92 58.5 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 5.381 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV013488.D

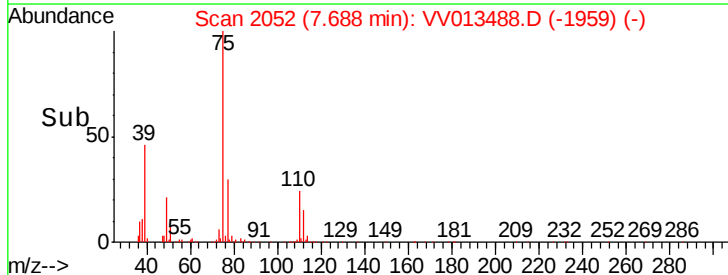
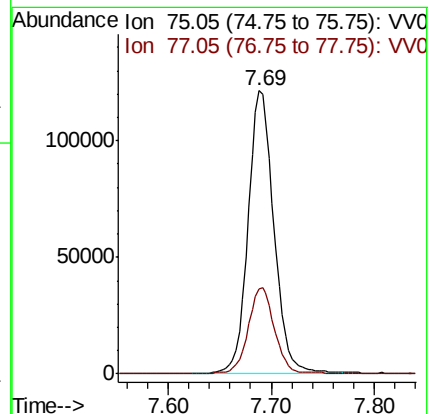
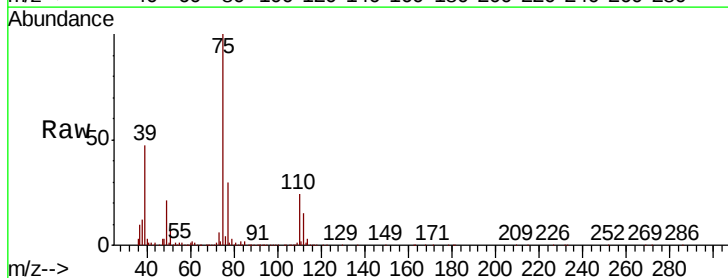
Acq: 05 Nov 2019 15:38

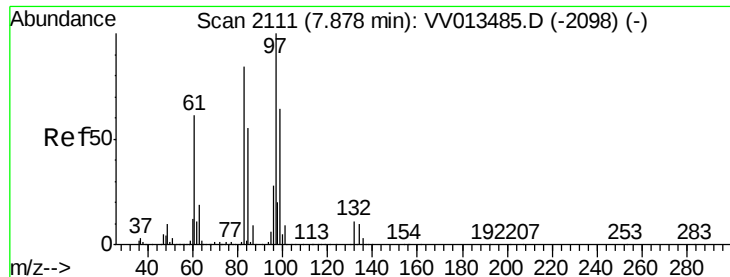
Tgt Ion: 75 Resp: 210995

Ion Ratio Lower Upper

75 100

77 30.0 21.9 40.7

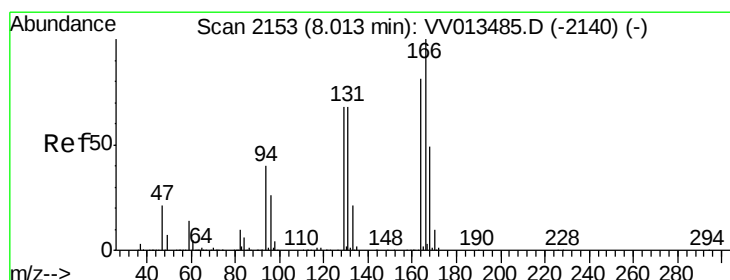
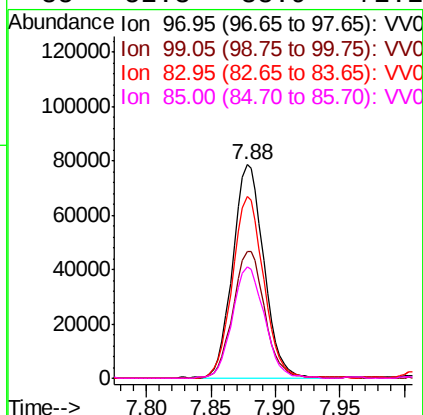
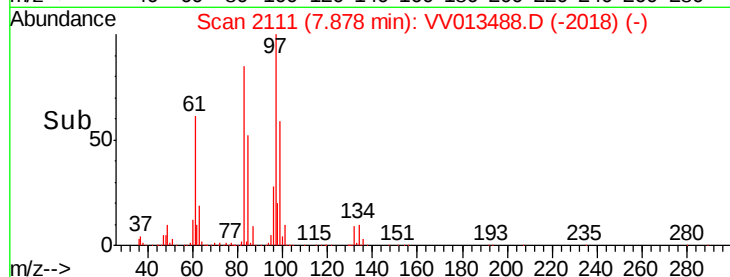
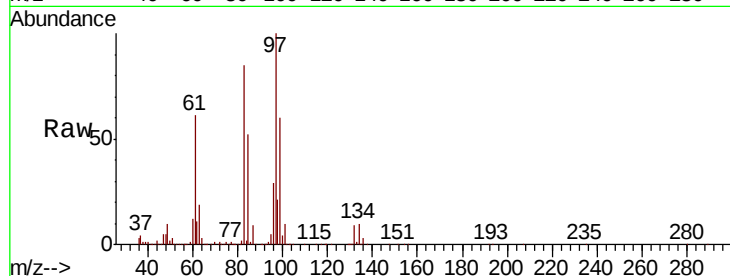




#45
 1,1,2-Trichloroethane
 Concen: 5.157 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

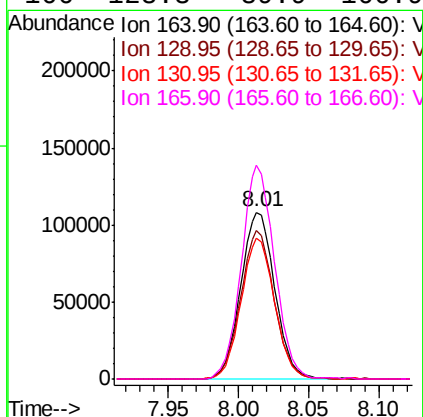
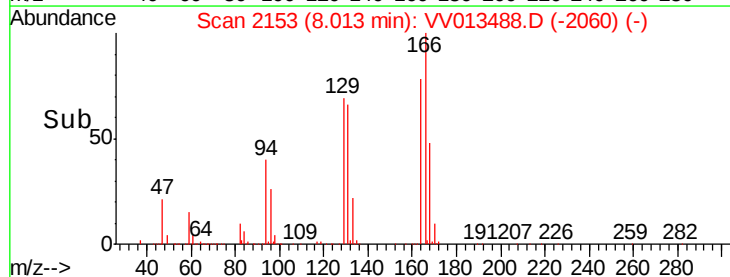
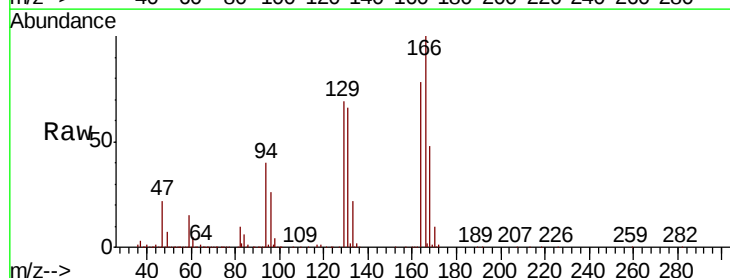
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

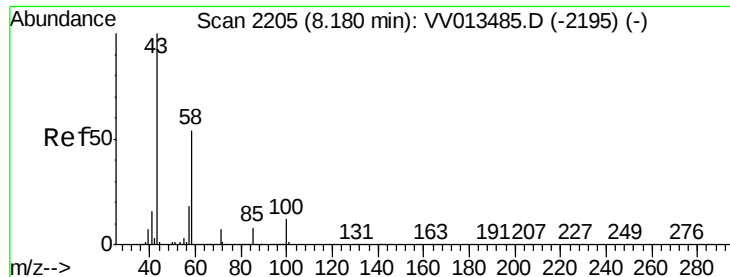
Tot Ion:	97	Resp:	131026
Ion	Ratio	Lower	Upper
97	100		
99	59.6	42.3	78.5
83	85.2	60.0	111.4
85	52.3	38.9	72.2



#47
 Tetrachloroethene
 Concen: 5.512 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion:	164	Resp:	183453
Ion	Ratio	Lower	Upper
164	100		
129	88.8	61.7	114.5
131	84.5	59.4	110.2
166	128.3	89.9	166.9

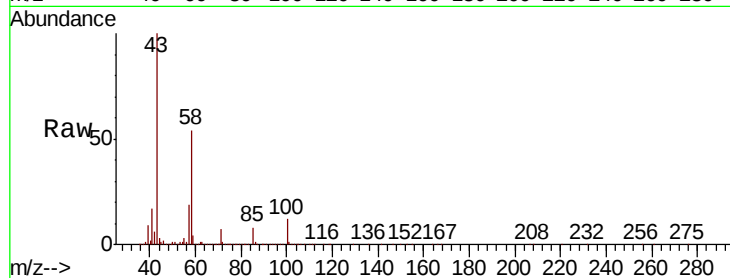




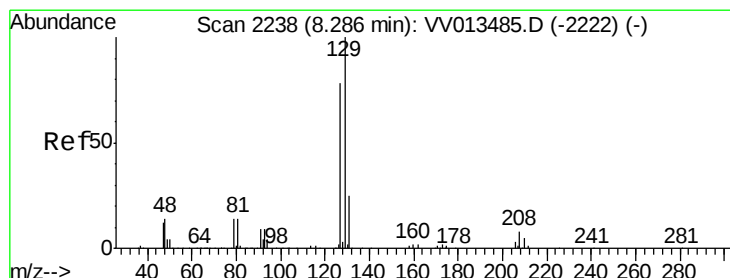
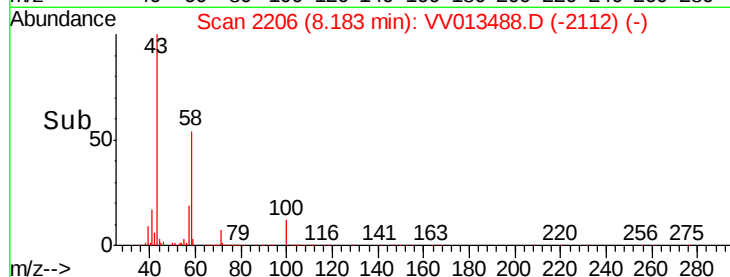
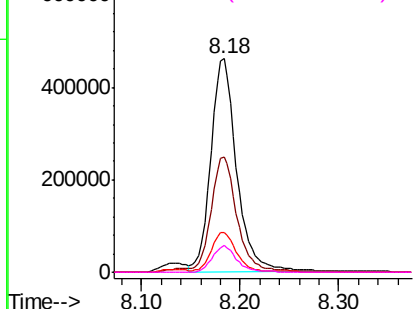
#48
2-Hexanone
Concen: 51.100 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

Tot Ion: 43 Resp: 842742
Ion Ratio Lower Upper
43 100
58 56.4 42.2 63.4
57 18.5 14.9 22.3
100 11.7 9.0 13.6

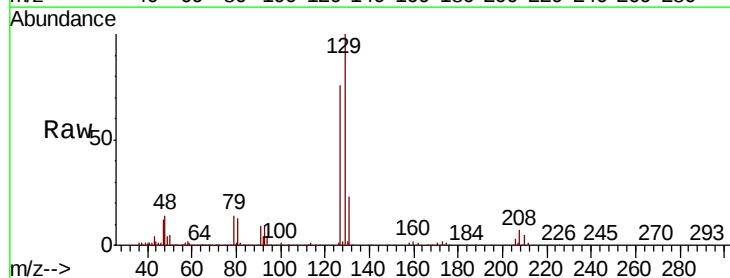


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

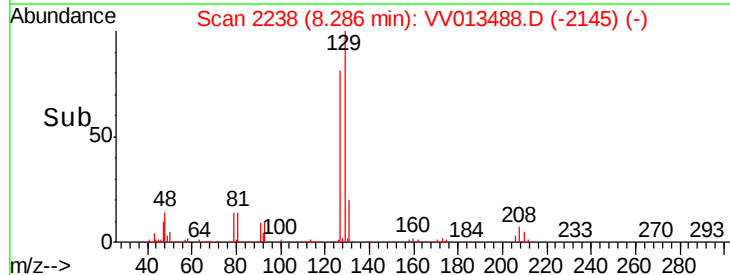
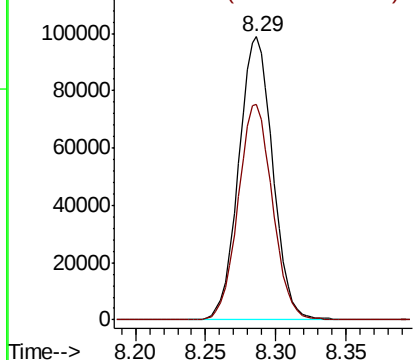


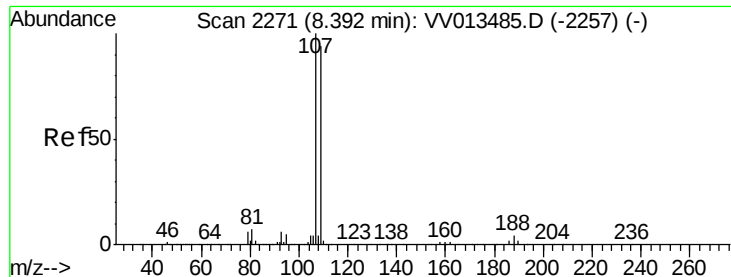
#49
Dibromochloromethane
Concen: 5.395 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Tgt Ion: 129 Resp: 166910
Ion Ratio Lower Upper
129 100
127 76.2 52.1 96.7



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

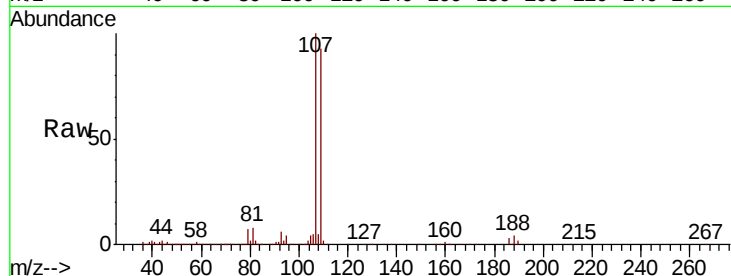




#50
1,2-Dibromoethane
Concen: 5.106 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.5	121.7
188	4.4	4.5	6.7#

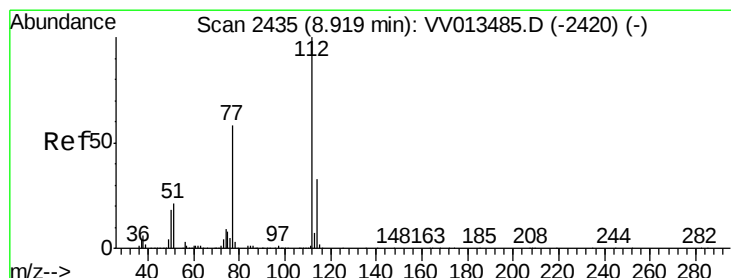
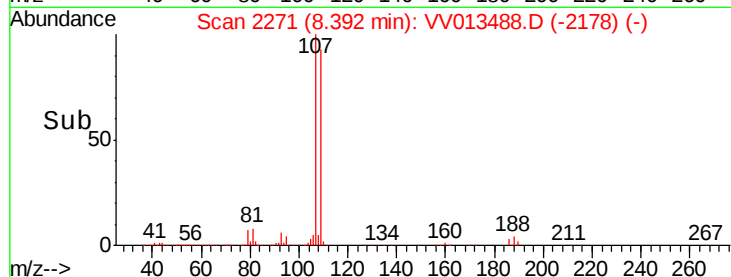
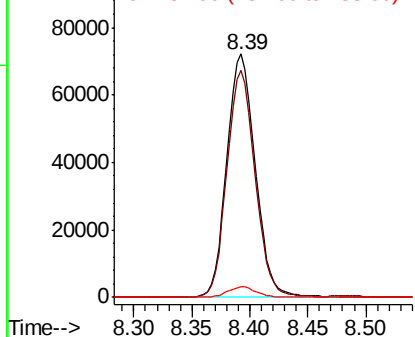


Abundance

Ion 106.95 (106.65 to 107.65): V

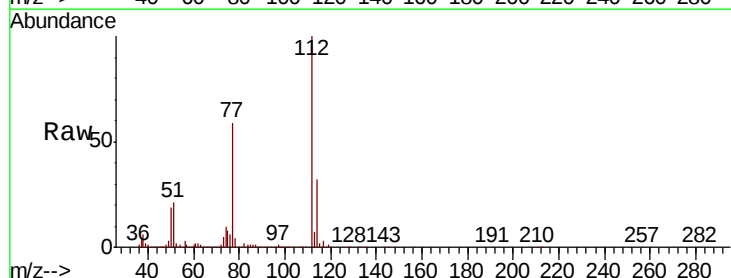
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 5.462 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	59.1	47.3	70.9

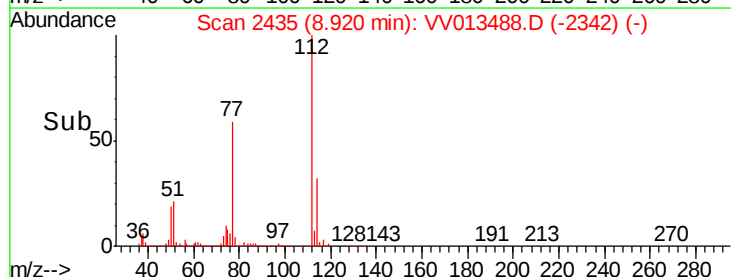
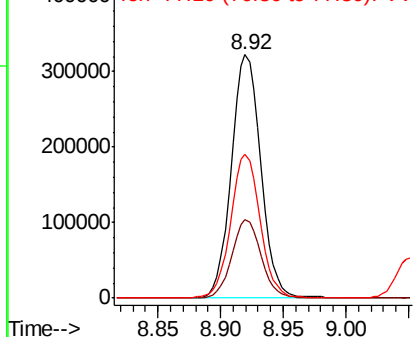


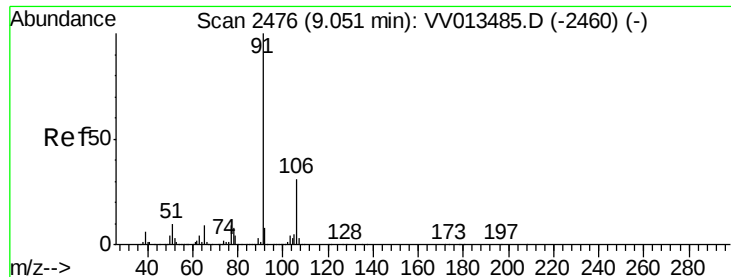
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

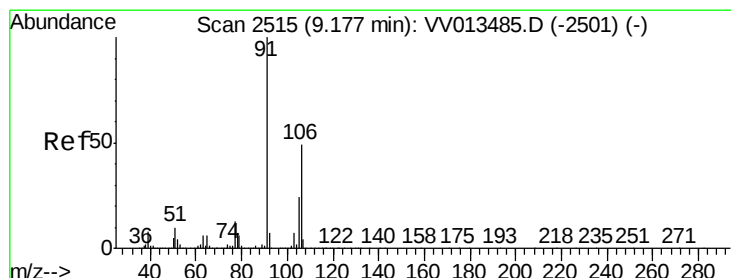
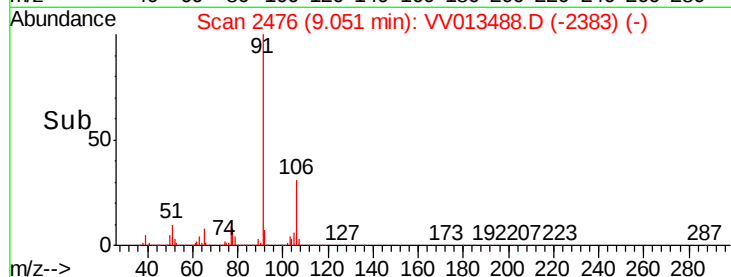
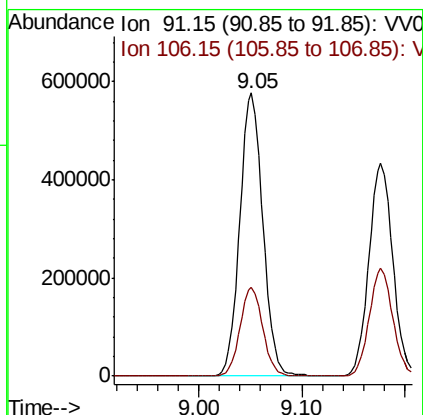
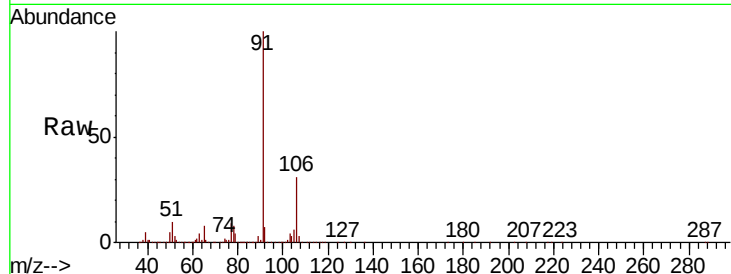




#52
Ethylbenzene
Concen: 5.708 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

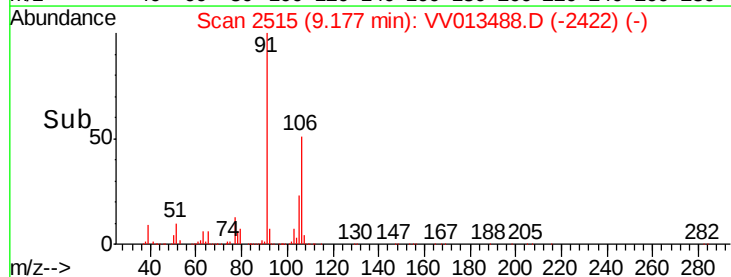
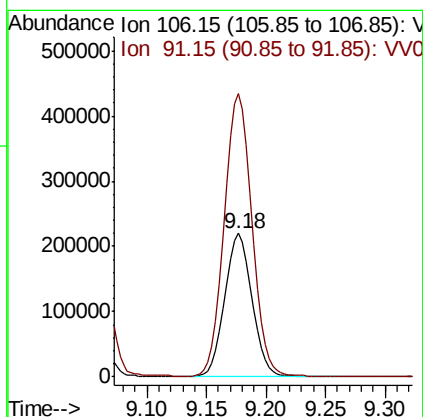
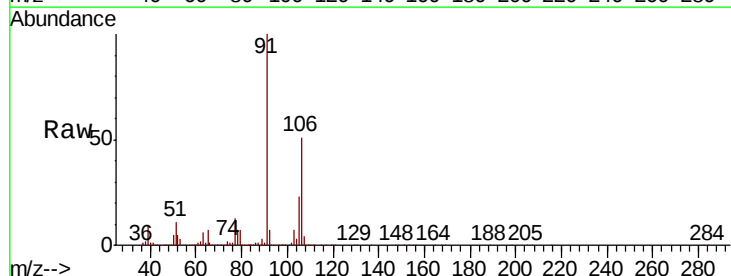
Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

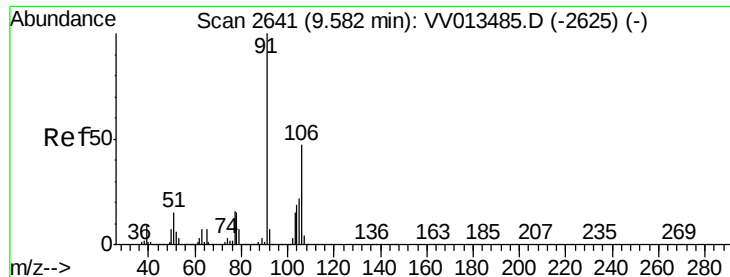
Tot Ion: 91 Resp: 899893
Ion Ratio Lower Upper
91 100
106 31.3 21.5 39.9



#53
m,p-xylene
Concen: 5.781 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. 0.00 min
Lab File: VV013488.D
Acq: 05 Nov 2019 15:38

Tgt Ion: 106 Resp: 348853
Ion Ratio Lower Upper
106 100
91 197.4 141.5 262.7





#54

o-xylene

Concen: 5.720 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

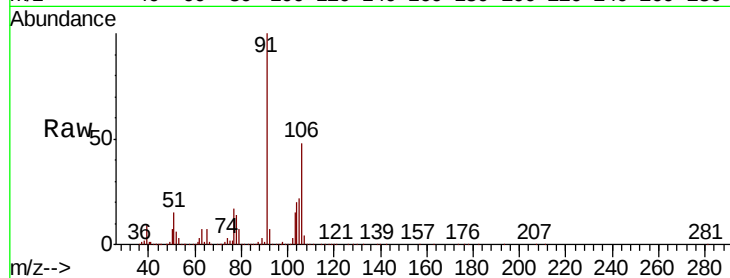
VSTD00547

Tot Ion:106 Resp: 330778

Ion Ratio Lower Upper

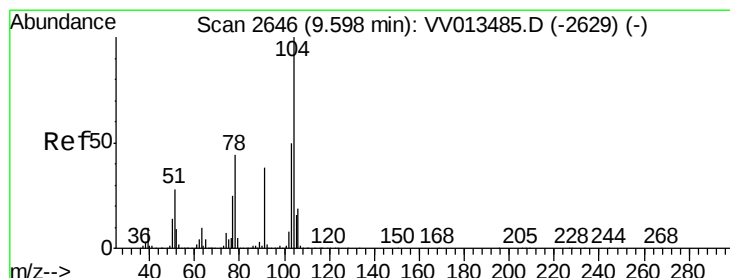
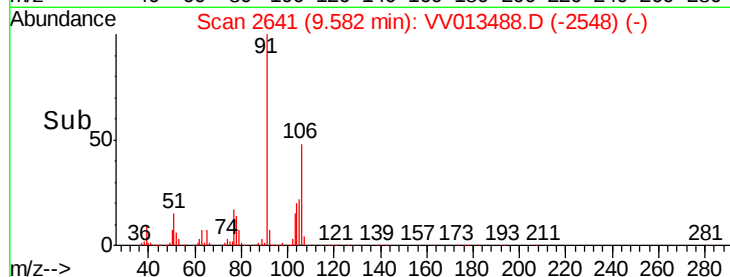
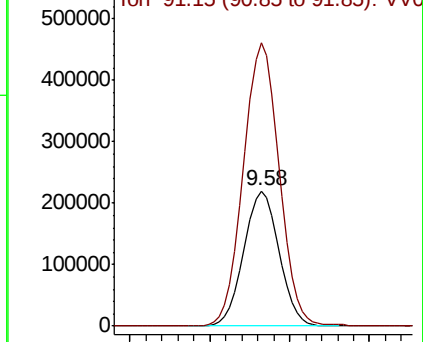
106 100

91 209.2 148.3 275.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.866 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV013488.D

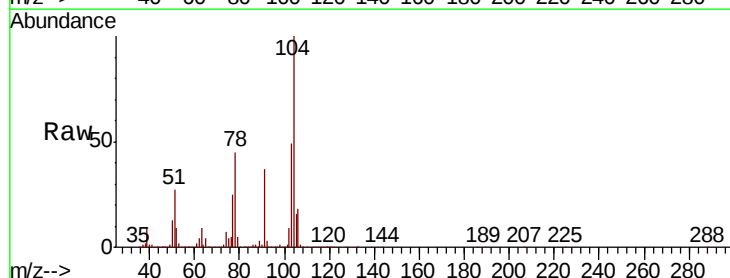
Acq: 05 Nov 2019 15:38

Tgt Ion:104 Resp: 577293

Ion Ratio Lower Upper

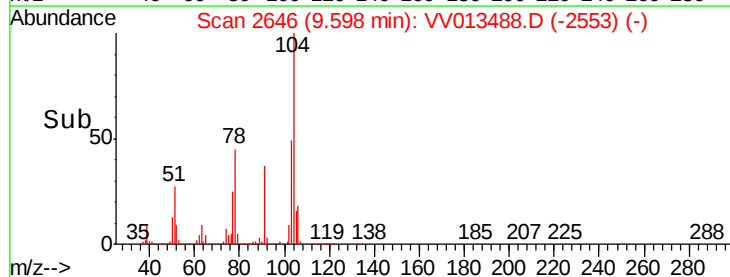
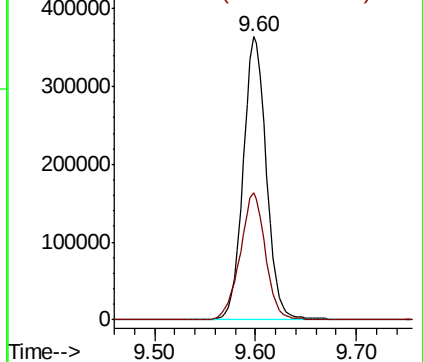
104 100

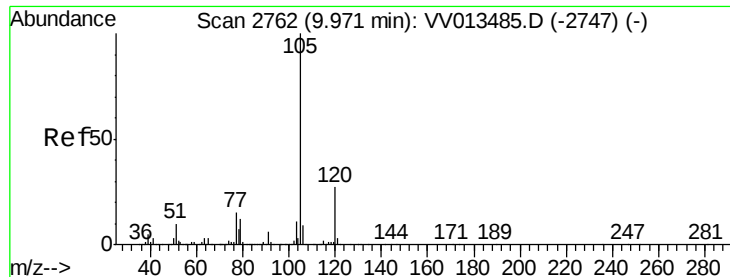
78 45.1 30.6 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.766 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

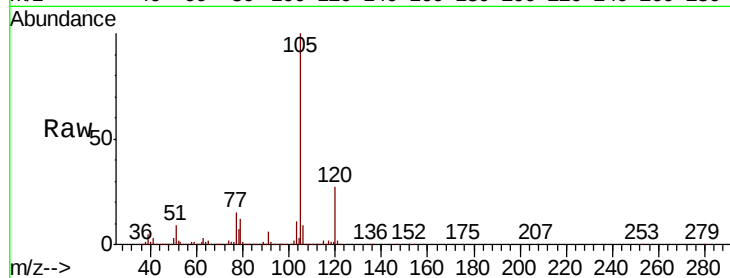
Tot Ion:105 Resp: 886194

Ion Ratio Lower Upper

105 100

120 26.9 21.1 31.7

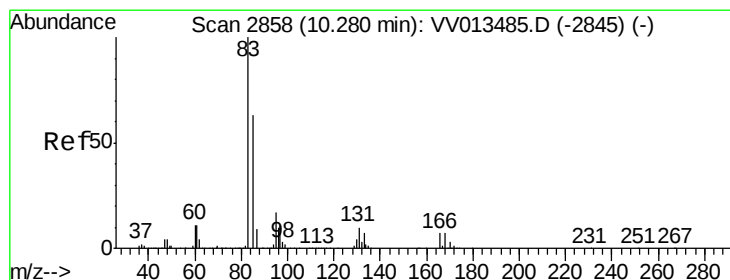
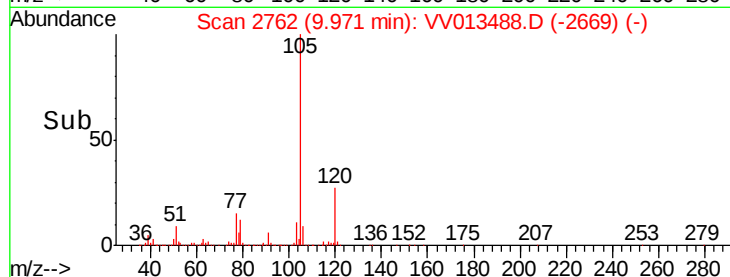
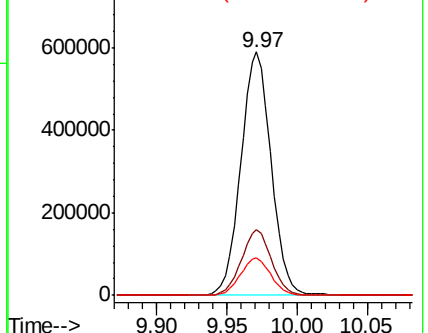
77 15.5 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.978 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

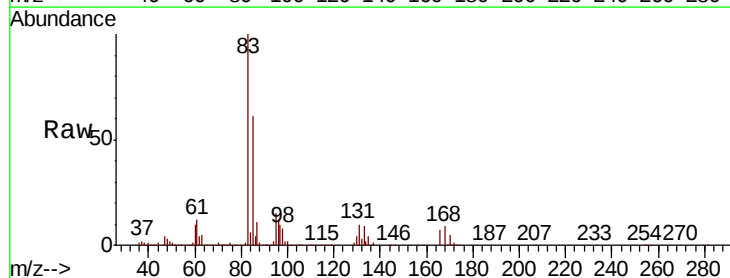
Tgt Ion: 83 Resp: 146127

Ion Ratio Lower Upper

83 100

85 61.2 45.8 85.0

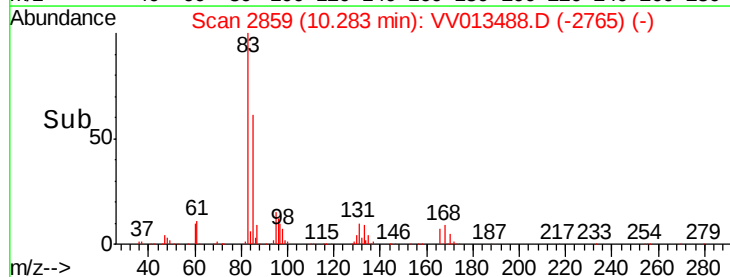
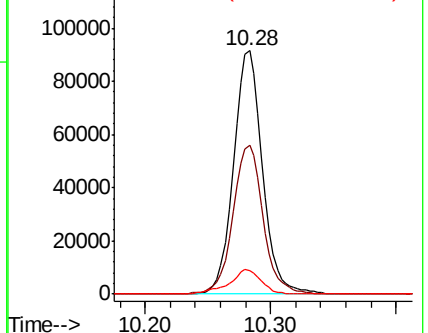
131 9.9 7.6 11.4

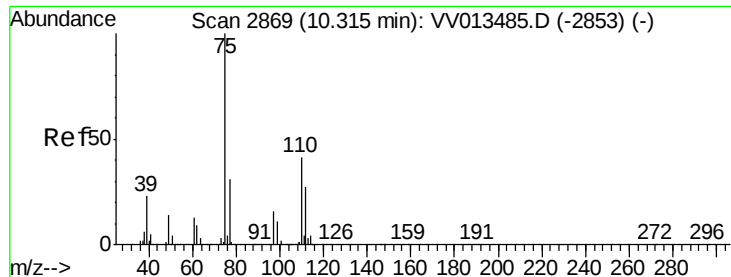


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.811 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

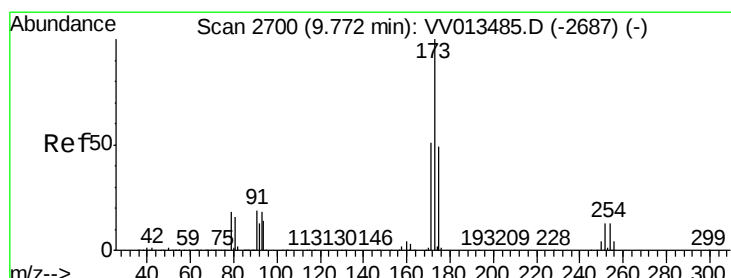
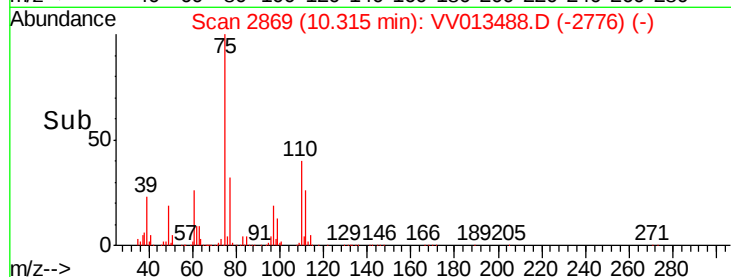
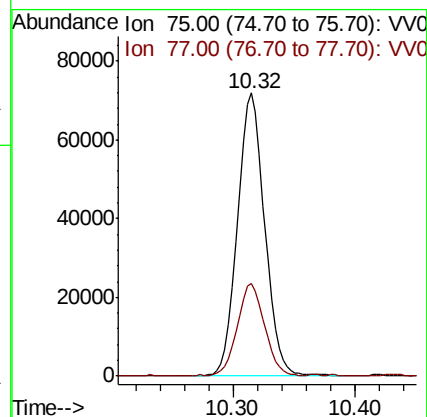
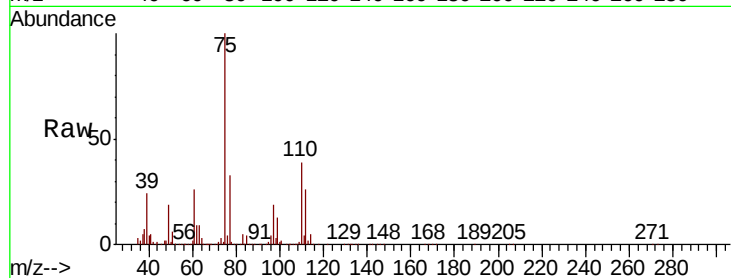
VSTD00547

Tot Ion: 75 Resp: 111364

Ion Ratio Lower Upper

75 100

77 32.0 24.4 36.6



#61

Bromoform

Concen: 5.047 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

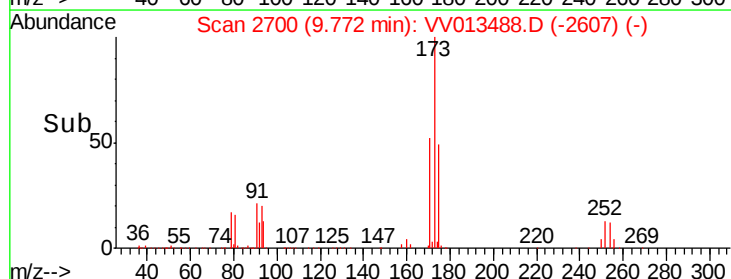
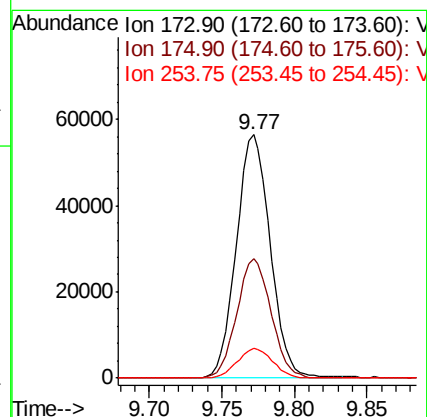
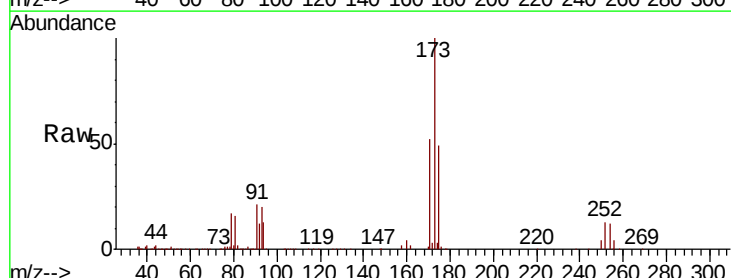
Tgt Ion: 173 Resp: 91856

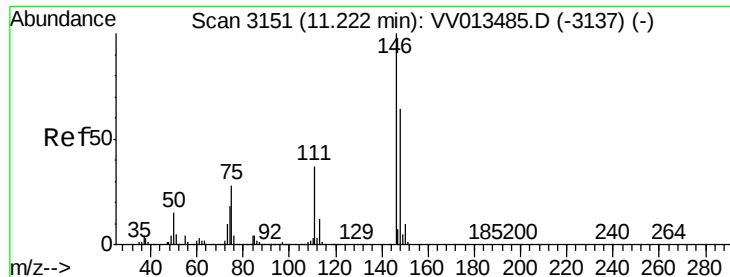
Ion Ratio Lower Upper

173 100

175 49.6 38.6 58.0

254 12.6 10.1 15.1





#62

1,3-Dichlorobenzene

Concen: 5.465 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

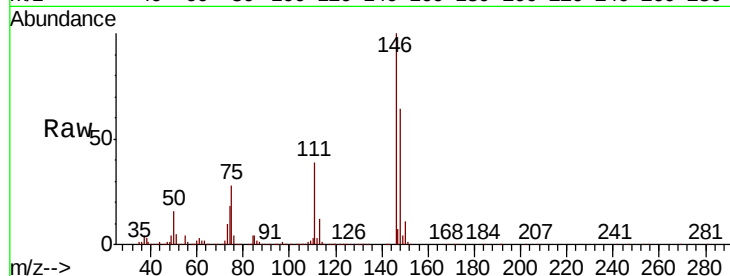
Tot Ion:146 Resp: 437357

Ion Ratio Lower Upper

146 100

111 38.9 26.2 48.8

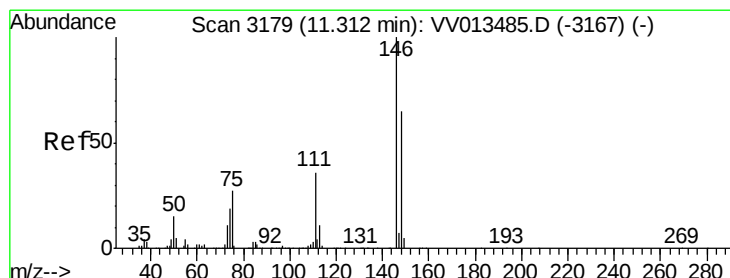
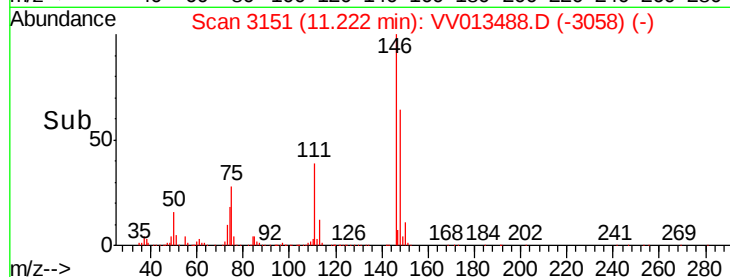
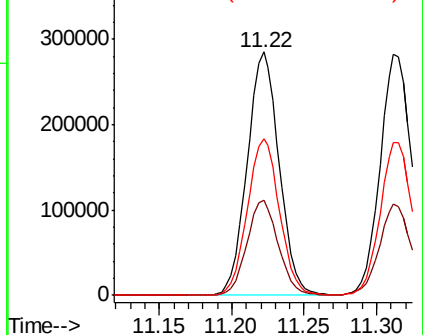
148 64.4 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.368 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

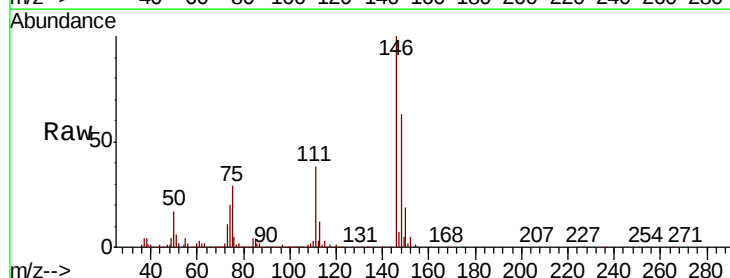
Tgt Ion:146 Resp: 435957

Ion Ratio Lower Upper

146 100

111 37.7 24.7 45.9

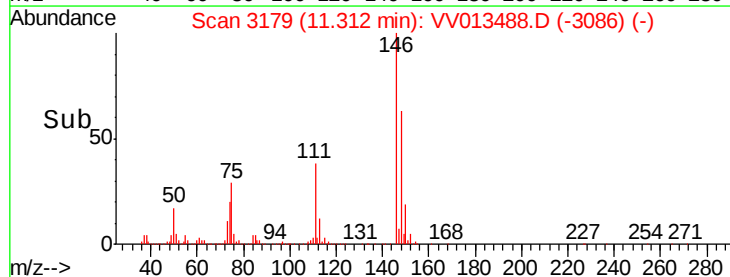
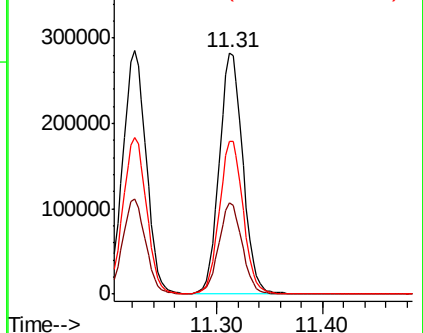
148 63.4 44.2 82.0

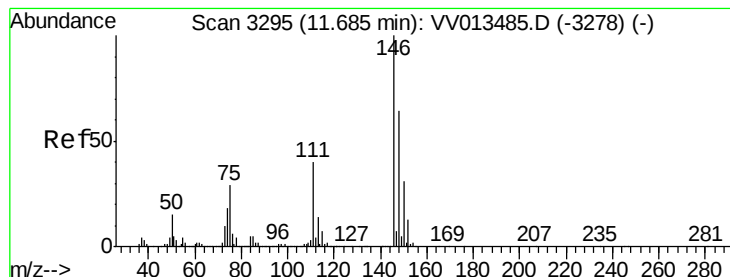


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.550 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

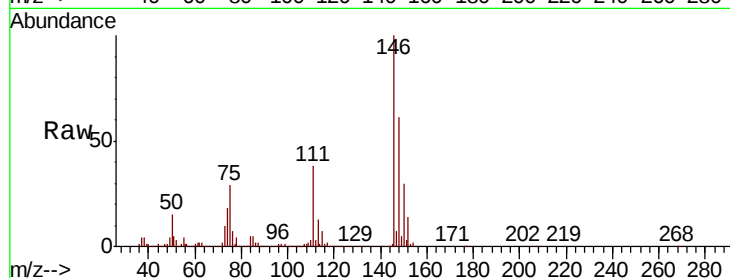
Tot Ion:146 Resp: 410390

Ion Ratio Lower Upper

146 100

111 38.5 31.8 47.6

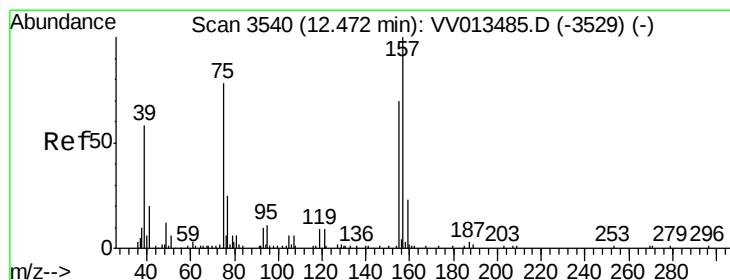
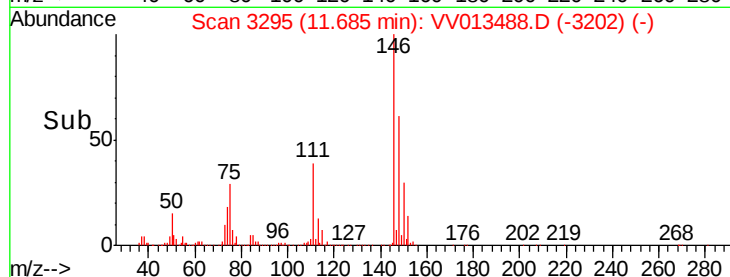
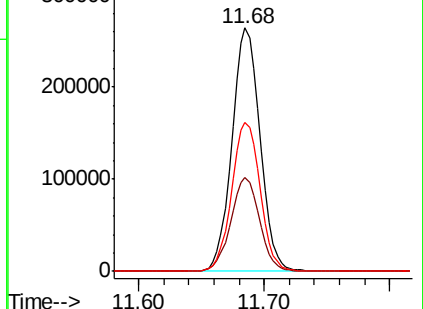
148 61.3 49.5 74.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.319 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

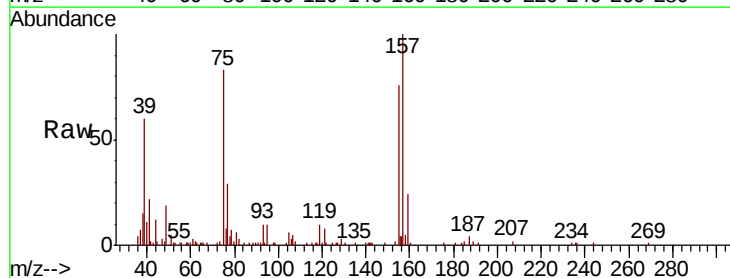
Tgt Ion: 75 Resp: 19430

Ion Ratio Lower Upper

75 100

155 91.1 73.5 110.3

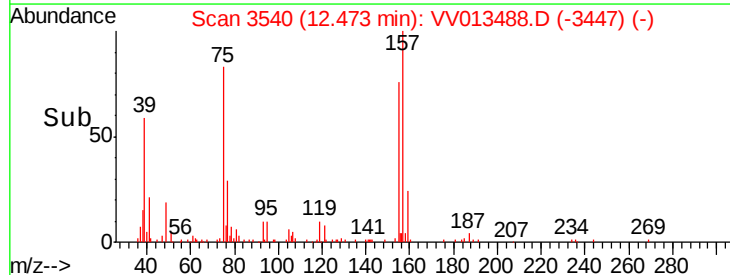
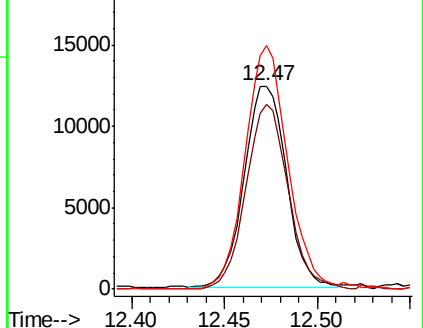
157 120.0 90.4 135.6

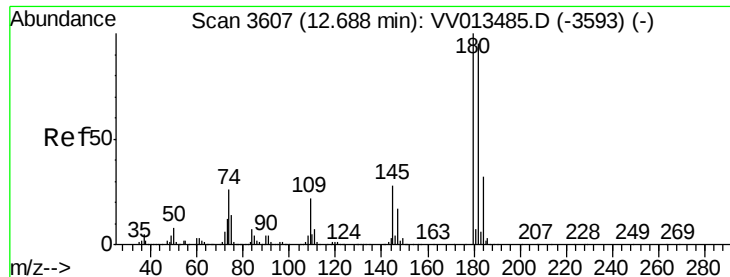


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

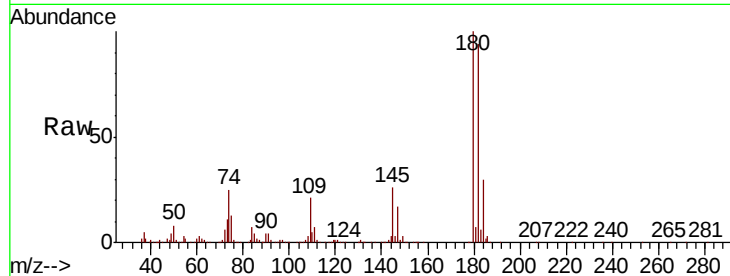




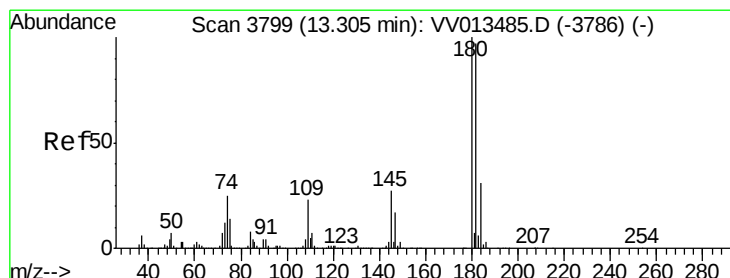
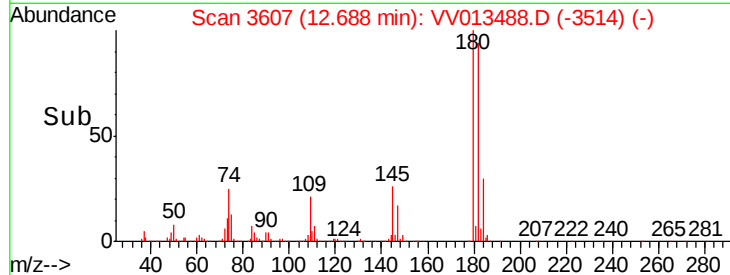
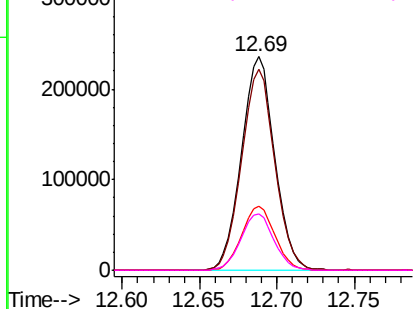
#67
 1,3,5-Trichlorobenzene
 Concen: 5.452 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tot Ion:	180	Resp:	351408
Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.1	114.1
184	30.3	24.5	36.7
145	26.4	21.4	32.2

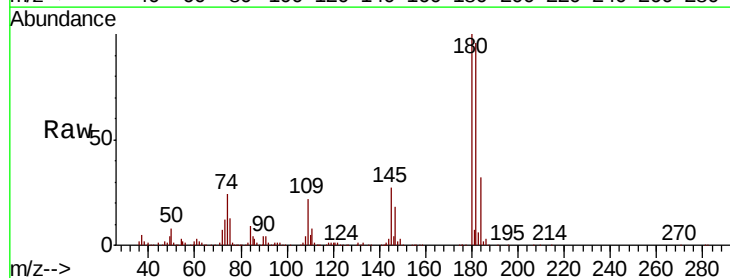


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

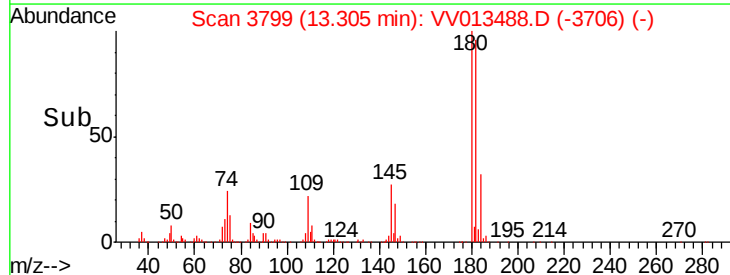
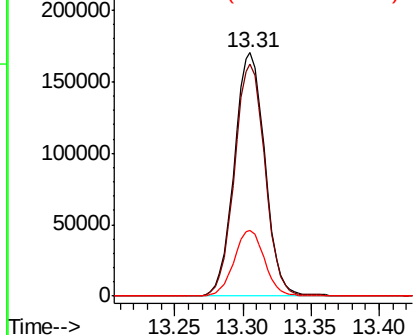


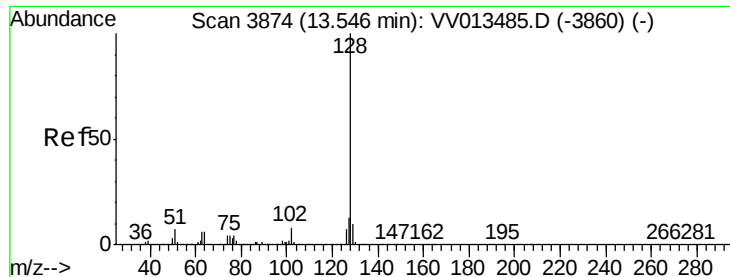
#68
 1,2,4-trichlorobenzene
 Concen: 4.937 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013488.D
 Acq: 05 Nov 2019 15:38

Tgt Ion:	180	Resp:	265566
Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.1	114.1
145	26.9	22.1	33.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.390 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

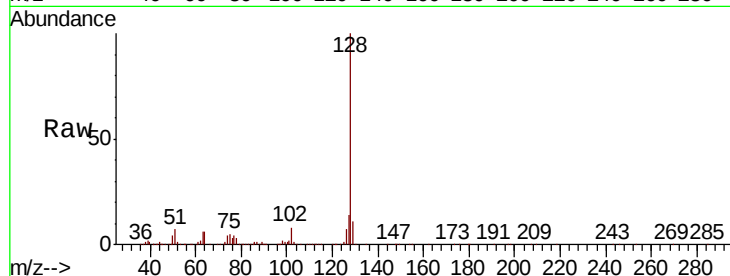
Tot Ion:128 Resp: 346307

Ion Ratio Lower Upper

128 100

129 11.0 8.4 12.6

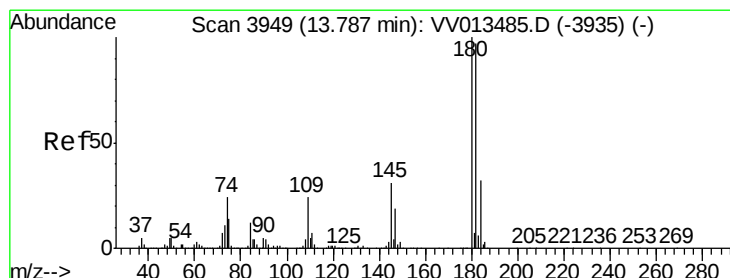
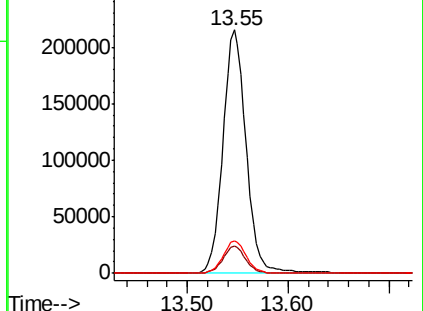
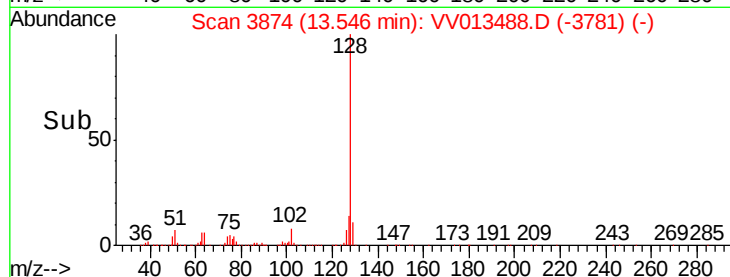
127 13.2 10.7 16.1



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: 4.887 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013488.D

Acq: 05 Nov 2019 15:38

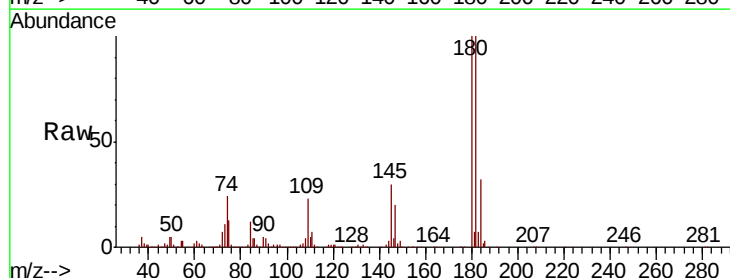
Tgt Ion:180 Resp: 242203

Ion Ratio Lower Upper

180 100

182 98.5 77.4 116.2

145 30.6 24.1 36.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

