

Data File : VU033330.D
Acq On : 18 Jul 2019 20:12
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Quant Time: Jul 19 01:50:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	379155	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	363984	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	191360	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	102126	35.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.16%
7) Chloroethane-d5	1.67	69	93076	37.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.92%
11) 1,1-Dichloroethene-d2	2.26	63	203288	39.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.10%
21) 2-Butanone-d5	4.15	46	189603	104.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.26%
24) Chloroform-d	4.62	84	209124	43.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.96%
26) 1,2-Dichloroethane-d4	5.28	65	129088	41.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.68%
32) Benzene-d6	5.32	84	398720	44.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.30%
36) 1,2-Dichloropropane-d6	6.31	67	130415	45.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.18%
41) Toluene-d8	7.55	98	371560	44.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.26%
43) trans-1,3-Dichloropropene-	7.83	79	64336	45.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.74%
47) 2-Hexanone-d5	8.29	63	135371	104.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.98%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	207554	47.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.88%
64) 1,2-Dichlorobenzene-d4	11.84	152	160204	46.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	169310	45.061	ug/L	99
3) Chloromethane	1.32	50	171177	46.243	ug/L	99
5) Vinyl chloride	1.40	62	186097	43.495	ug/L	99
6) Bromomethane	1.61	94	116168	43.553	ug/L	97
8) Chloroethane	1.68	64	114878	44.390	ug/L	97
9) Trichlorofluoromethane	1.87	101	246231	43.766	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	118842	45.945	ug/L	95
12) 1,1-Dichloroethene	2.27	96	117633	46.482	ug/L	87
13) Acetone	2.31	43	147790	65.042	ug/L	99
14) Carbon disulfide	2.46	76	333910	43.141	ug/L	99
15) Methyl Acetate	2.60	43	146894	49.505	ug/L	99
16) Methylene chloride	2.68	84	136598	47.274	ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	122814	46.955	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	405372	50.211	ug/L	98
19) 1,1-Dichloroethane	3.42	63	234569	46.655	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	143268	48.561	ug/L	95
22) 2-Butanone	4.23	43	217039	85.983	ug/L	100

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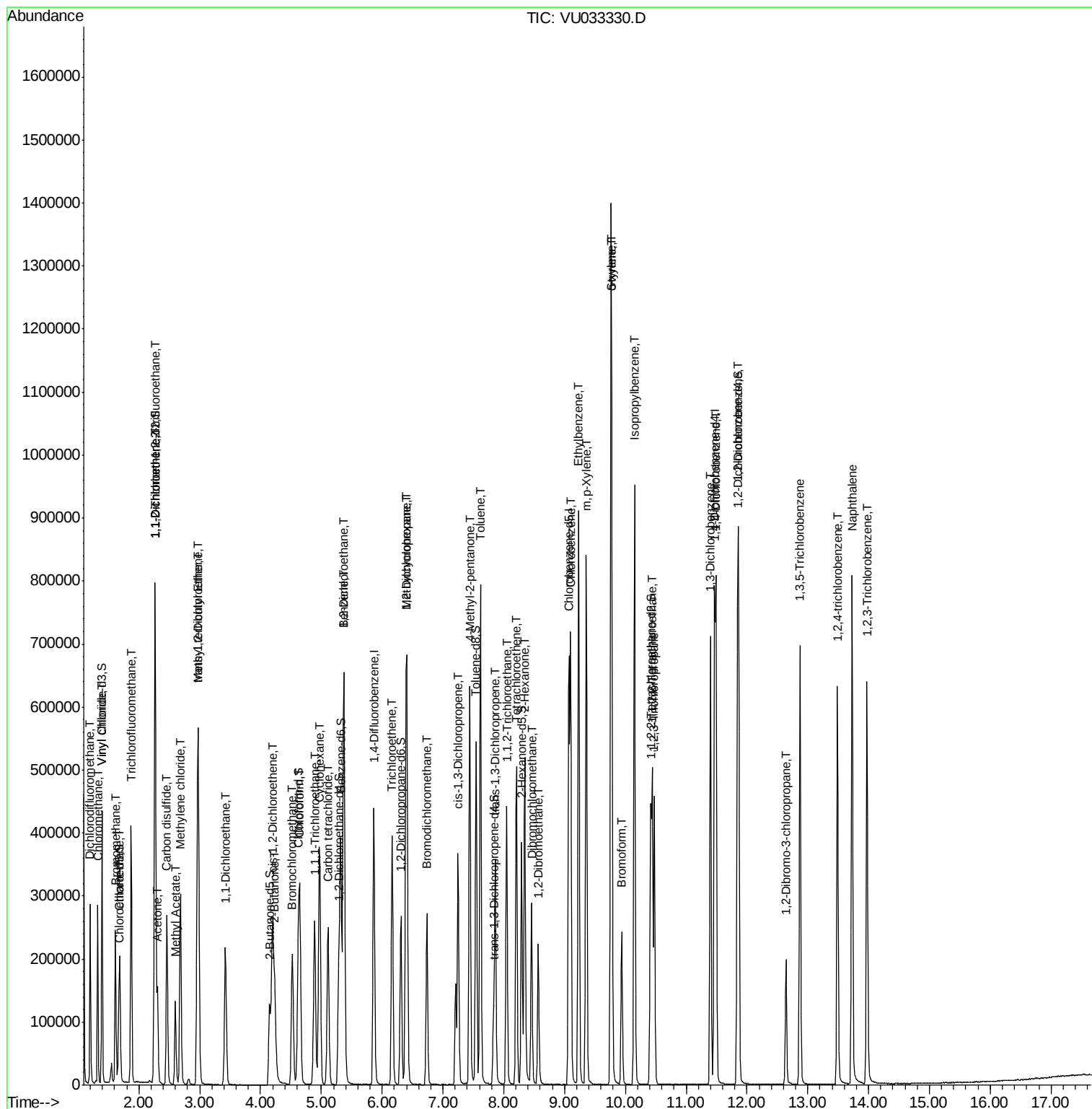
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	72999	48.321	ug/L	97
25) Chloroform	4.65	83	242102	45.276	ug/L	100
27) 1,2-Dichloroethane	5.38	62	191182	46.172	ug/L	100
29) Cyclohexane	4.97	56	202974	51.176	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	206294	48.580	ug/L	99
31) Carbon tetrachloride	5.11	117	182117	49.007	ug/L	99
33) Benzene	5.36	78	529432	49.877	ug/L	100
34) Trichloroethene	6.16	95	134923	48.603	ug/L	97
35) Methylcyclohexane	6.40	83	213989	50.321	ug/L	99
37) 1,2-Dichloropropane	6.41	63	141001	48.981	ug/L	100
38) Bromodichloromethane	6.74	83	175687	47.313	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	220433	49.943	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	408197	105.703	ug/L	99
42) Toluene	7.62	91	582067	50.863	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	199104	50.020	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	135172	49.649	ug/L	98
46) Tetrachloroethene	8.21	164	113316	52.729	ug/L	97
48) 2-Hexanone	8.34	43	322132	102.392	ug/L	99
49) Dibromochloromethane	8.46	129	148595	48.928	ug/L	99
50) 1,2-Dibromoethane	8.57	107	147415	49.660	ug/L #	100
51) Chlorobenzene	9.10	112	374712	50.165	ug/L	98
52) Ethylbenzene	9.23	91	635928	51.931	ug/L	99
53) m,p-Xylene	9.36	106	246307	53.103	ug/L	99
54) o-xylene	9.76	106	242209	52.590	ug/L	96
55) Styrene	9.77	104	408560	52.324	ug/L	99
56) Isopropylbenzene	10.15	105	620097	52.323	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	235427	49.229	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	185614	49.529	ug/L	100
61) Bromoform	9.94	173	111526	47.720	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	296093	50.266	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	301159	48.897	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	302409	50.058	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	51011	44.241	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	225154	52.890	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	200881	54.023	ug/L	99
69) Naphthalene	13.73	128	647959	54.347	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	208565	51.664	ug/L	98

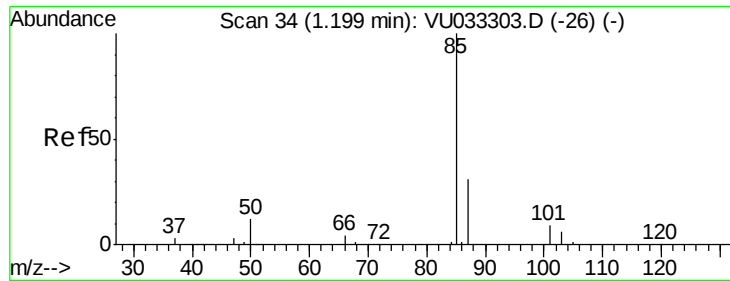
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.061 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

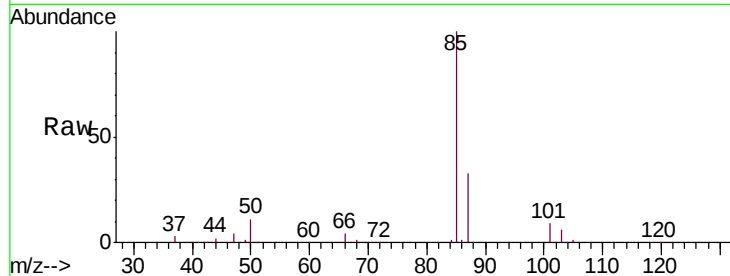
VSTD05052

Tgt Ion: 85 Resp: 169310

Ion Ratio Lower Upper

85 100

87 32.3 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033330.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033330.D (-26) (-)

1.20

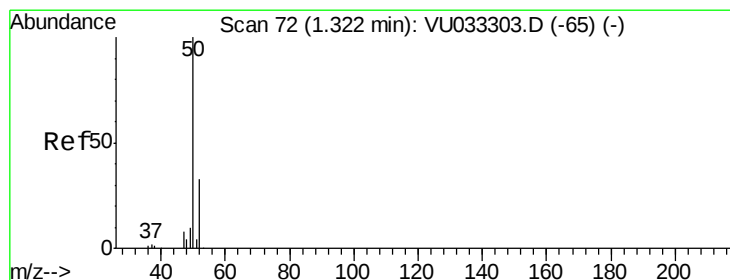
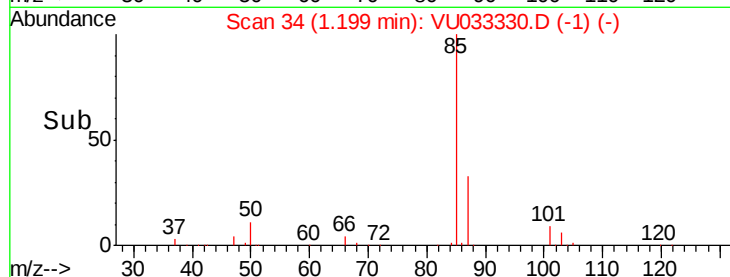
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.243 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033330.D

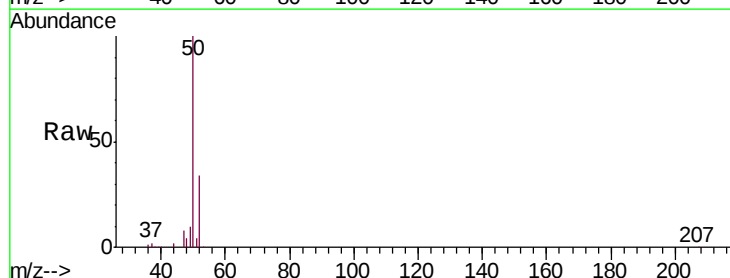
Acq: 18 Jul 2019 20:12

Tgt Ion: 50 Resp: 171177

Ion Ratio Lower Upper

50 100

52 33.5 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033330.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU033330.D (-65) (-)

200000

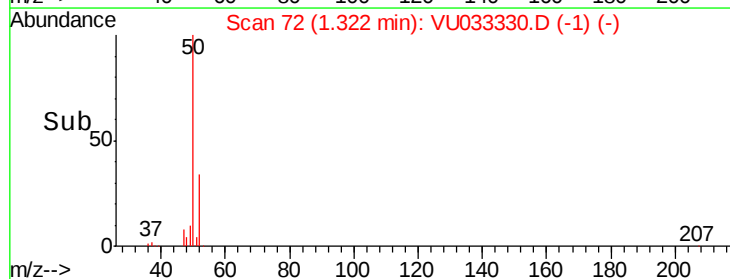
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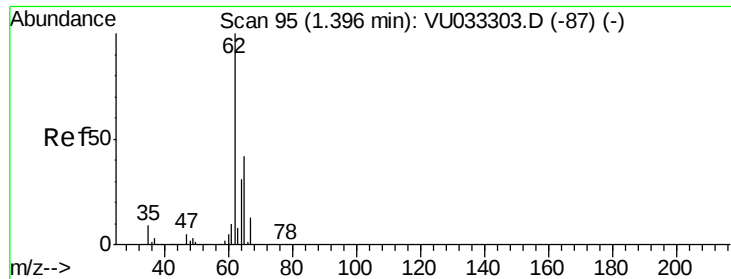
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 43.495 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

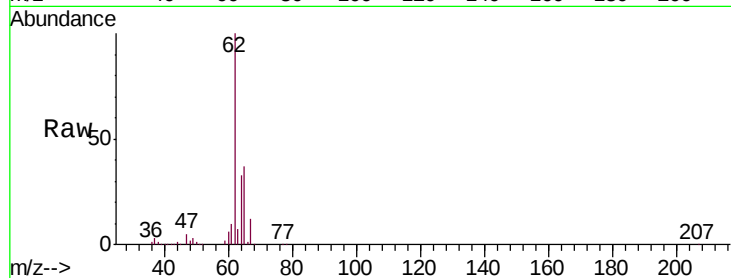
VSTD05052

Tgt Ion: 62 Resp: 186097

Ion Ratio Lower Upper

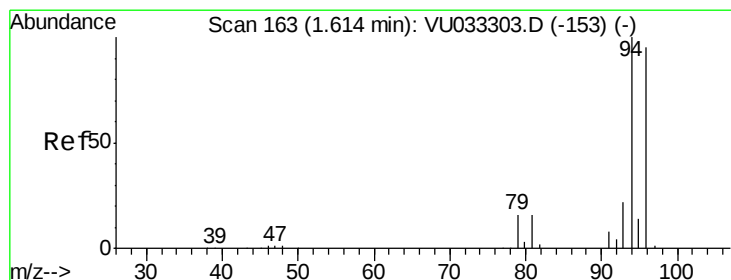
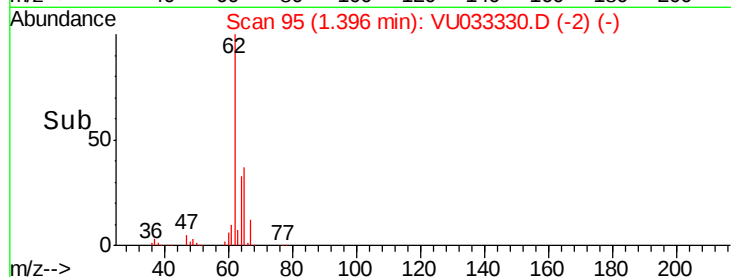
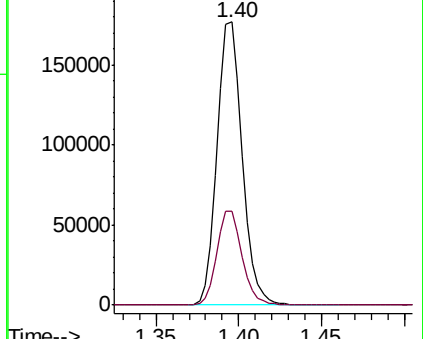
62 100

64 33.2 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 43.553 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033330.D

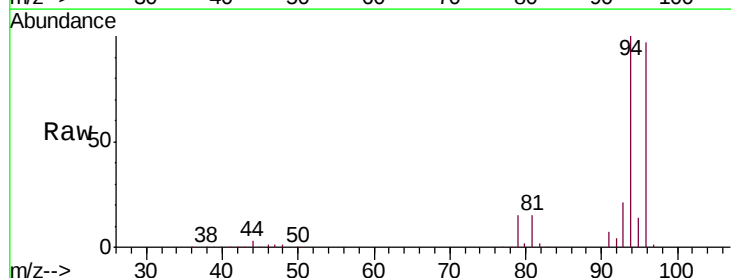
Acq: 18 Jul 2019 20:12

Tgt Ion: 94 Resp: 116168

Ion Ratio Lower Upper

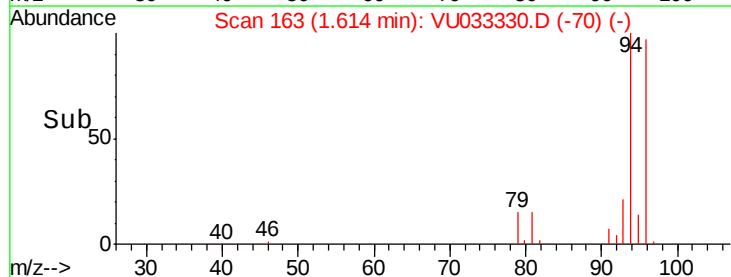
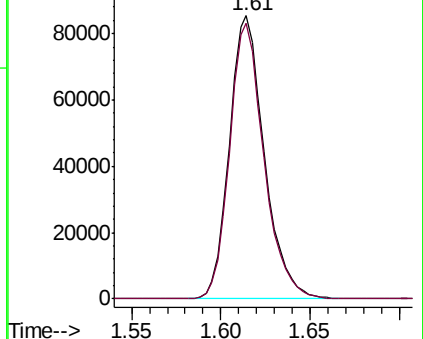
94 100

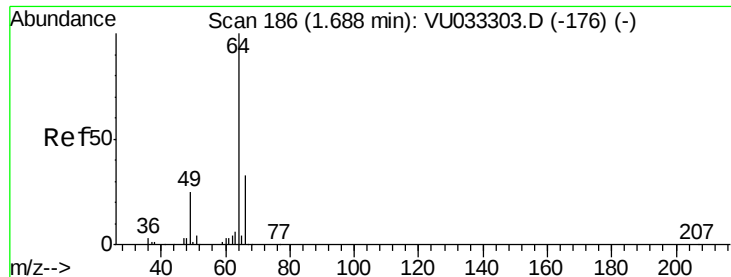
96 97.3 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

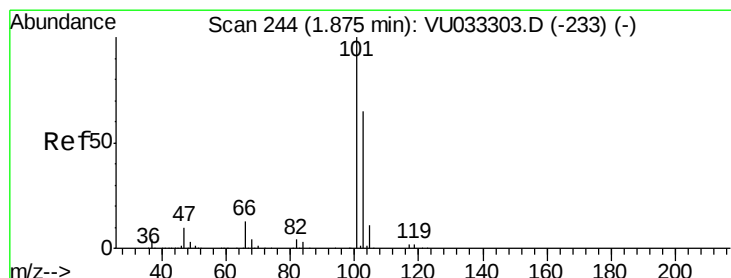
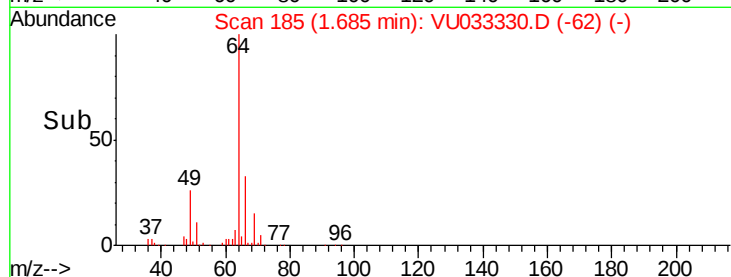
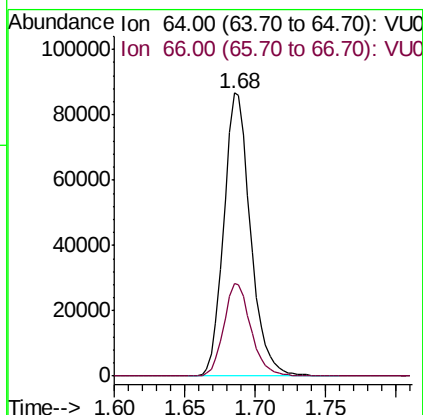
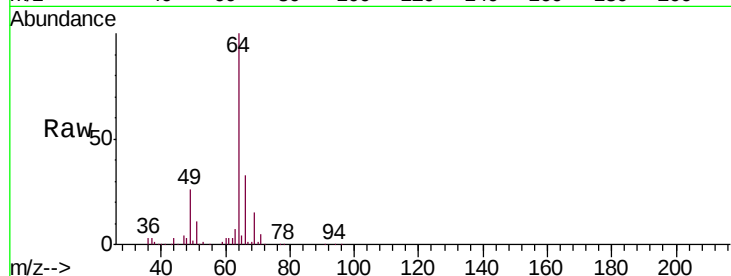




#8
Chloroethane
Concen: 44.390 ug/L
RT: 1.68 min Scan# 185
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

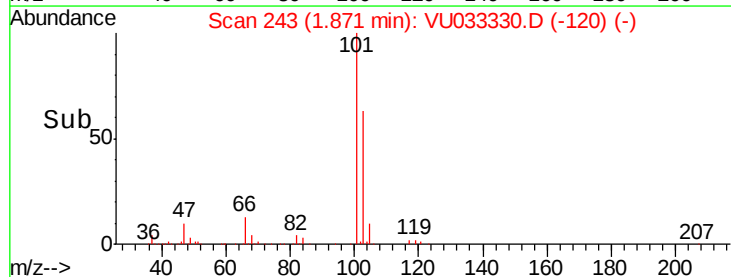
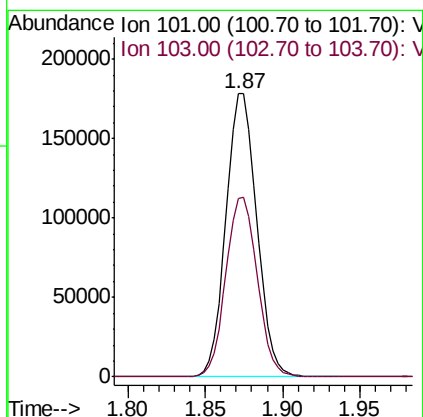
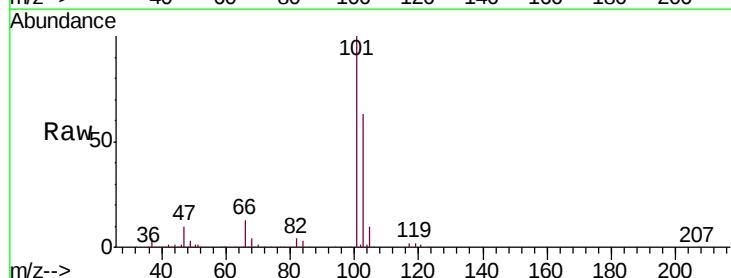
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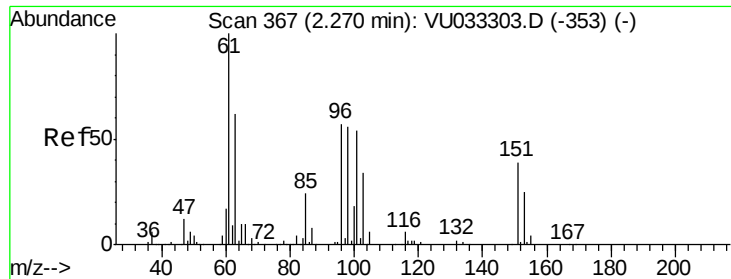
Tgt Ion: 64 Resp: 114878
Ion Ratio Lower Upper
64 100
66 32.6 21.6 40.0



#9
Trichlorofluoromethane
Concen: 43.766 ug/L
RT: 1.87 min Scan# 243
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 101 Resp: 246231
Ion Ratio Lower Upper
101 100
103 64.7 52.2 78.4





#10

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

Concen: 45.945 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

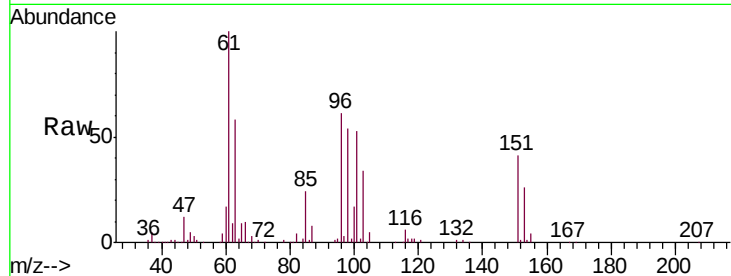
Tgt Ion: 101 Resp: 118842

Ion Ratio Lower Upper

101 100

85 45.0 35.8 53.8

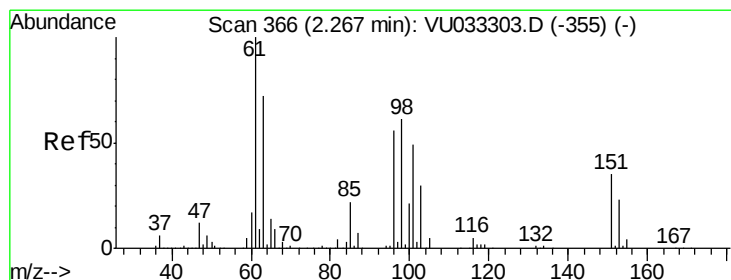
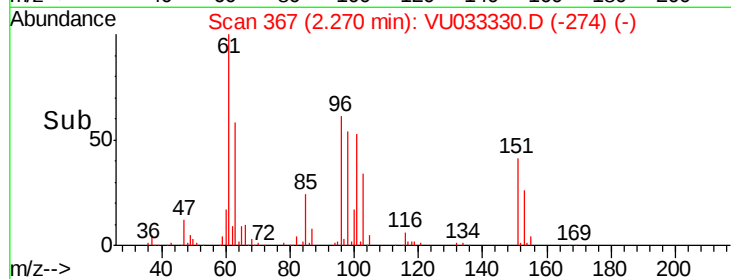
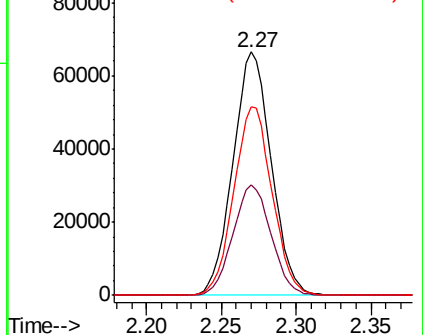
151 77.2 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.482 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

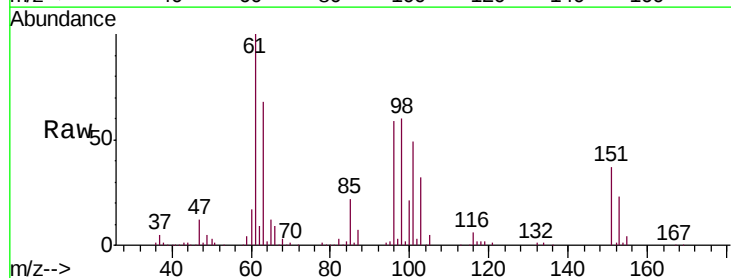
Tgt Ion: 96 Resp: 117633

Ion Ratio Lower Upper

96 100

61 168.9 126.1 234.1

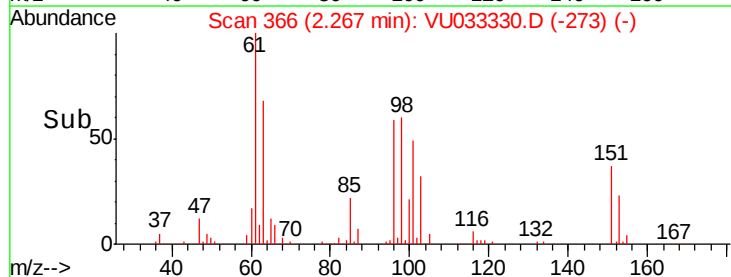
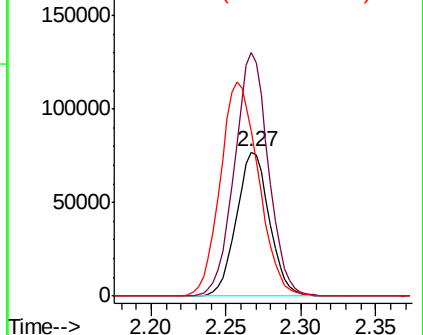
63 114.8 96.8 179.8

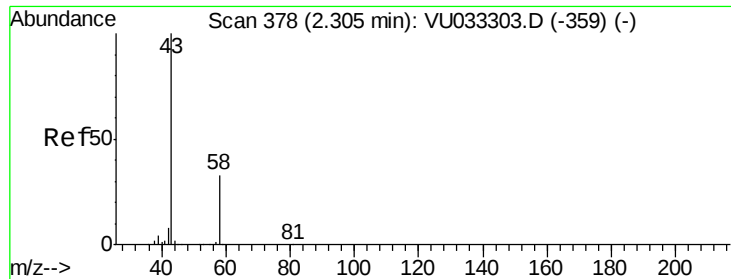


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 65.042 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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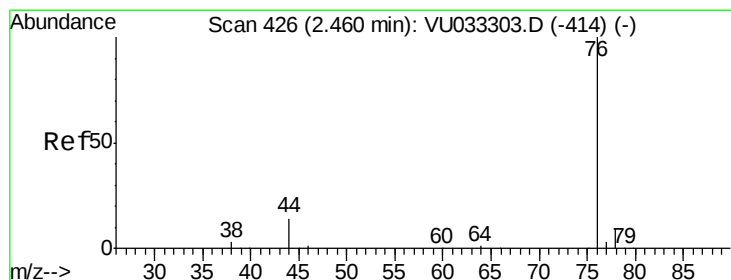
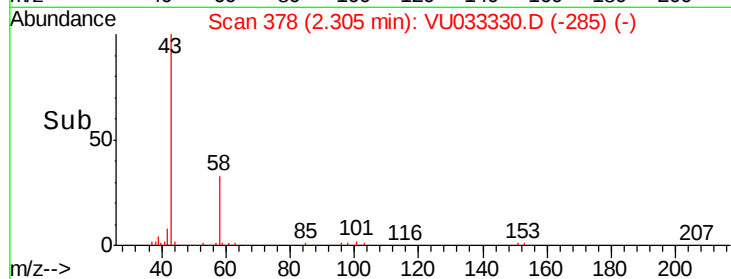
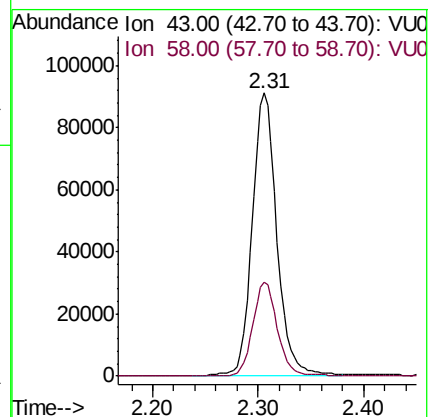
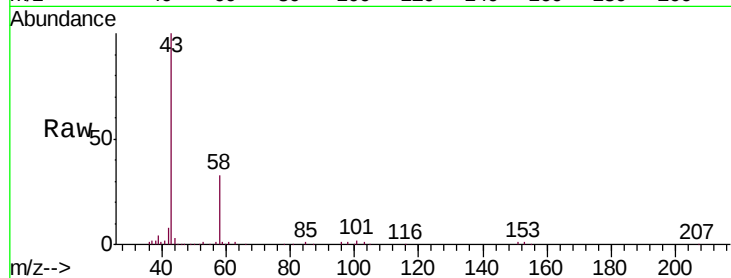
VSTD05052

Tgt Ion: 43 Resp: 147790

Ion Ratio Lower Upper

43 100

58 33.4 0.0 65.4



#14

Carbon disulfide

Concen: 43.141 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033330.D

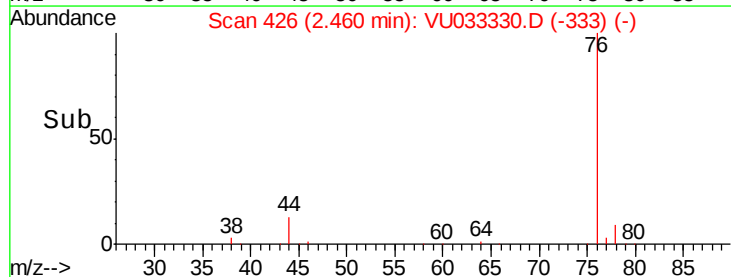
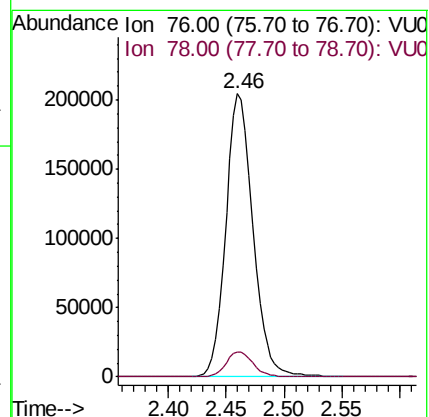
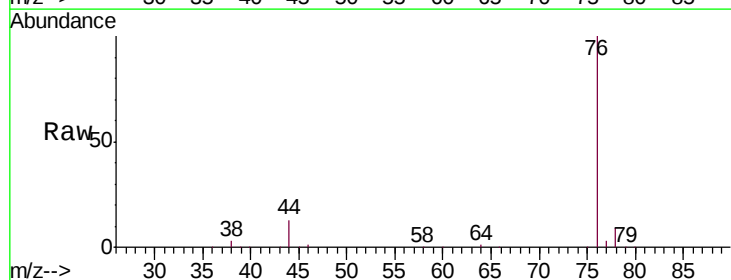
Acq: 18 Jul 2019 20:12

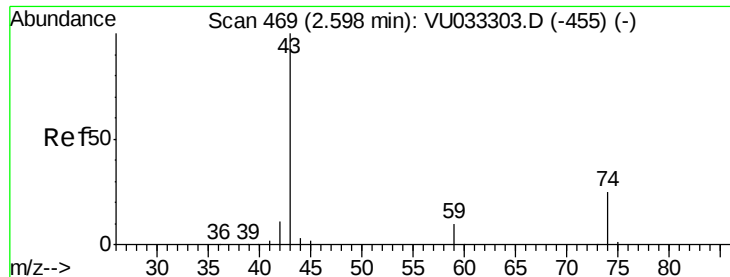
Tgt Ion: 76 Resp: 333910

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2

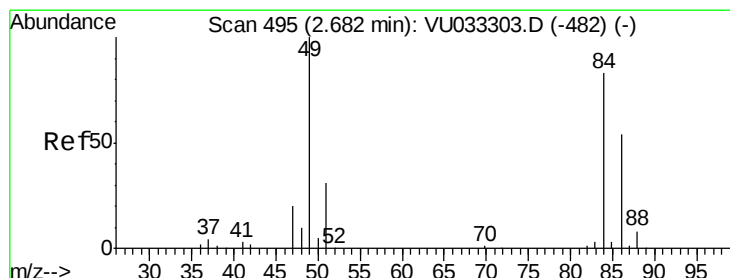
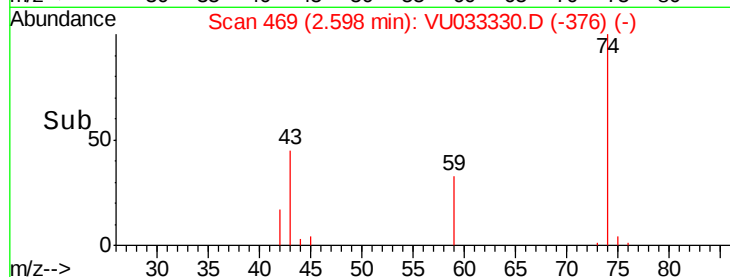
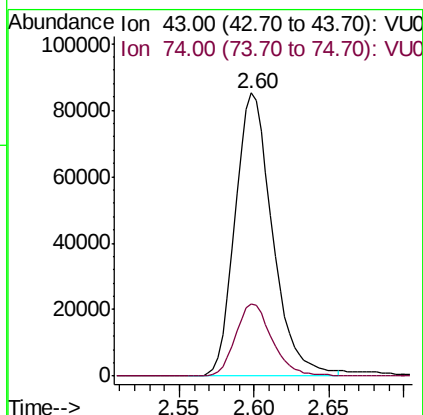
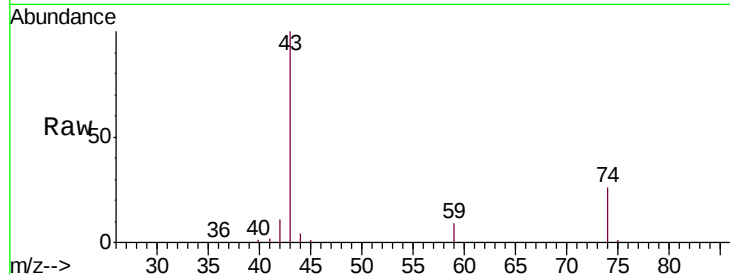




#15
Methyl Acetate
Concen: 49.505 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

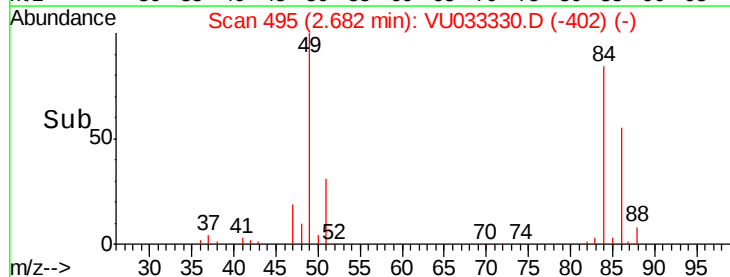
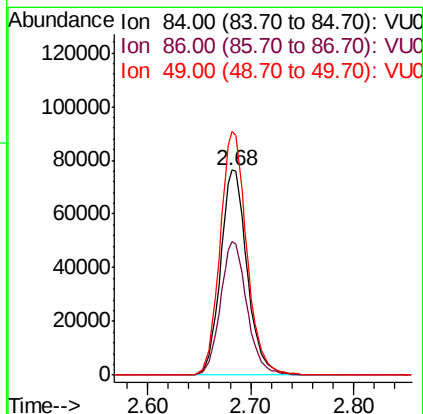
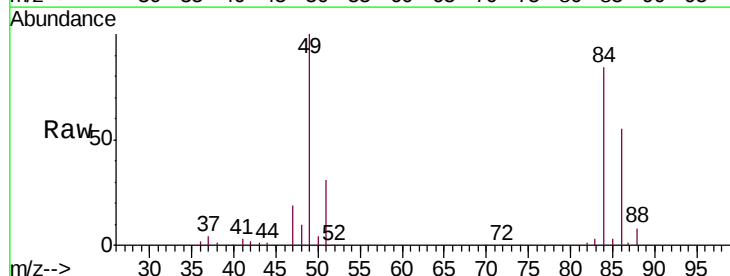
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

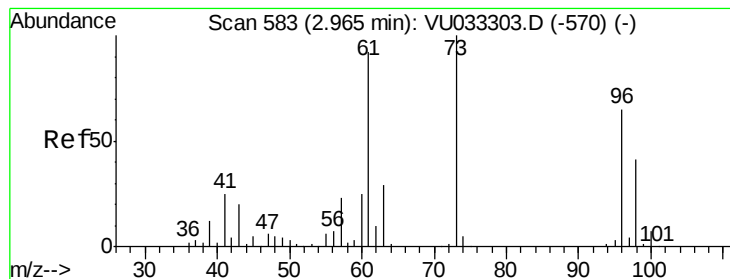
Tgt Ion: 43 Resp: 146894
Ion Ratio Lower Upper
43 100
74 25.2 19.9 29.9



#16
Methylene chloride
Concen: 47.274 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 84 Resp: 136598
Ion Ratio Lower Upper
84 100
86 65.1 45.7 84.9
49 118.9 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 46.955 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

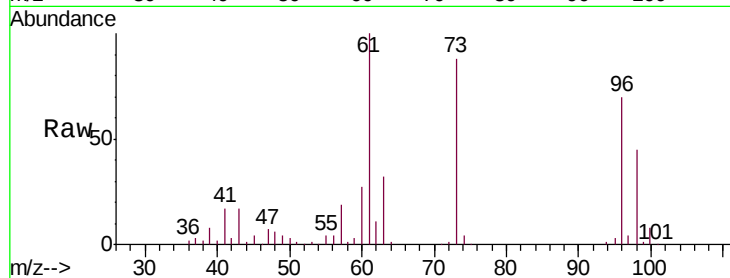
Tgt Ion: 96 Resp: 122814

Ion Ratio Lower Upper

96 100

61 142.0 100.2 186.2

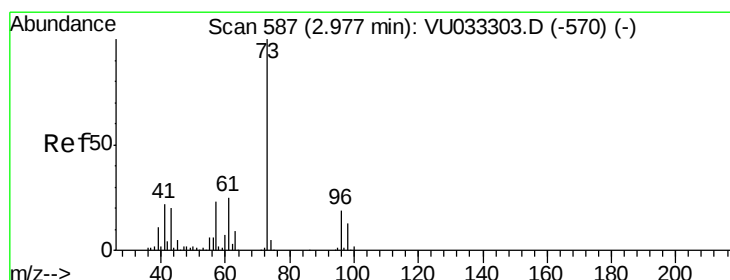
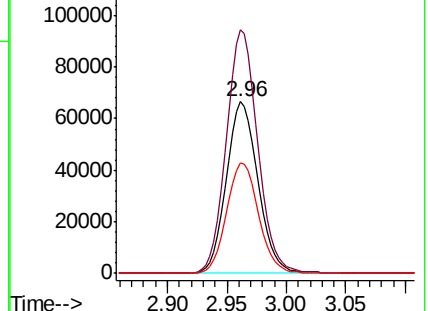
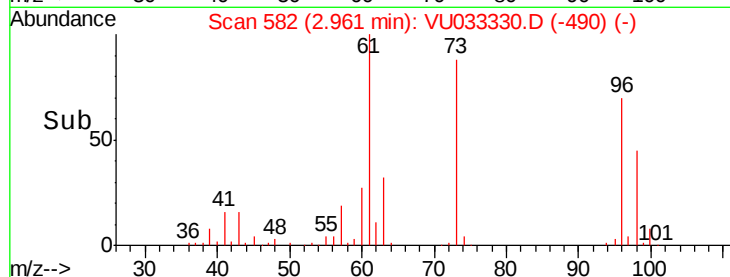
98 64.2 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033330.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033330.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033330.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 50.211 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

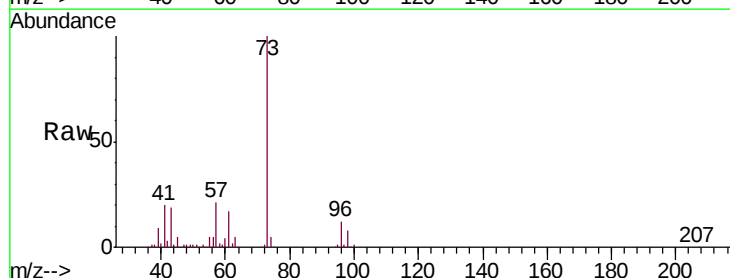
Tgt Ion: 73 Resp: 405372

Ion Ratio Lower Upper

73 100

43 18.9 15.7 23.5

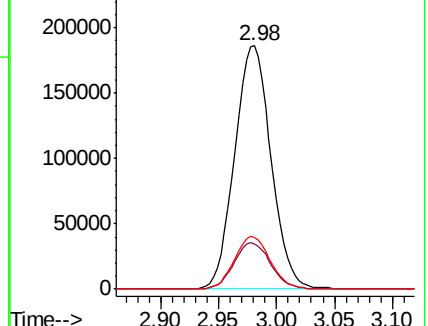
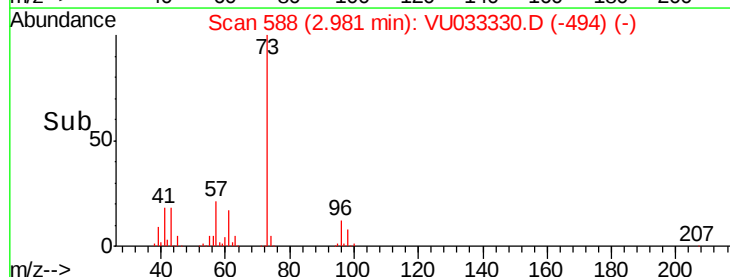
57 21.4 17.8 26.6

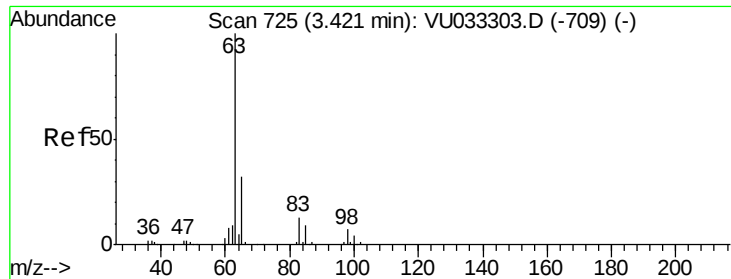


Abundance Ion 73.00 (72.70 to 73.70): VU033330.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU033330.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU033330.D (-570) (-)

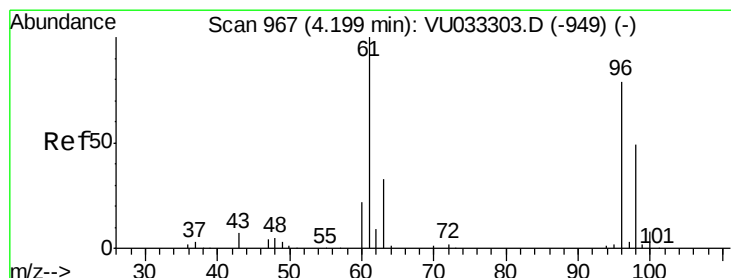
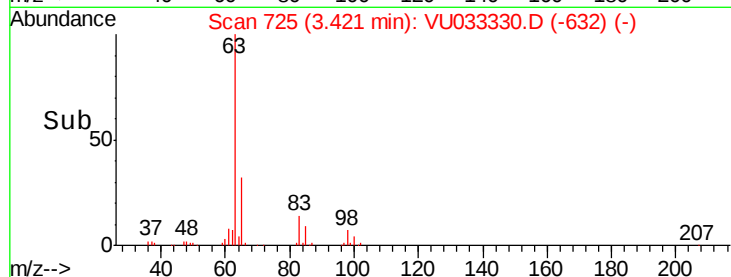
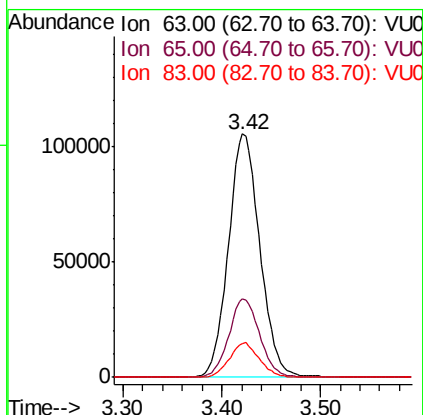
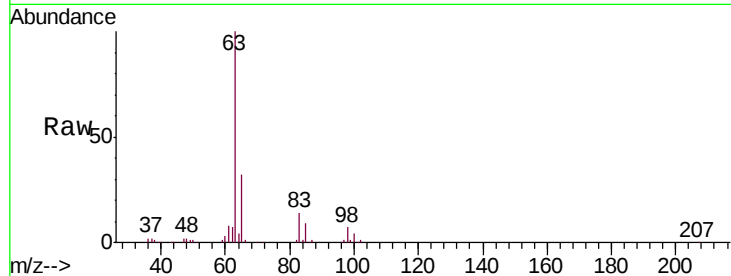




#19
 1,1-Dichloroethane
 Concen: 46.655 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

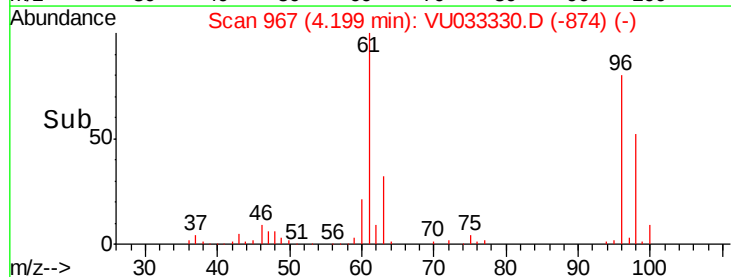
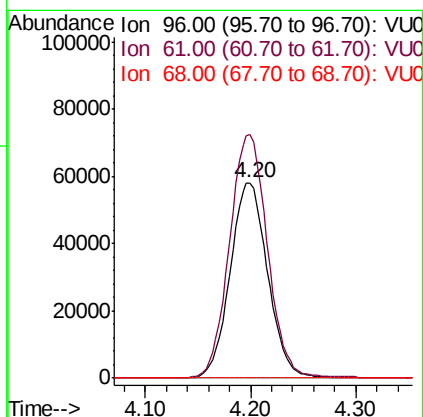
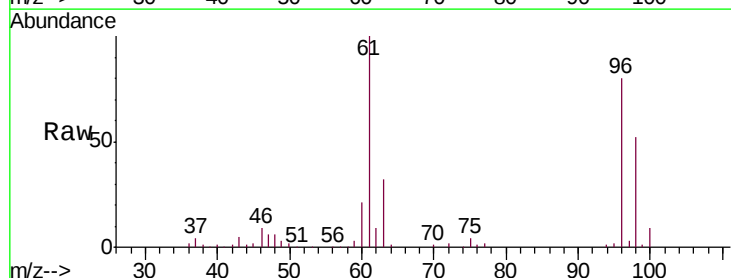
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

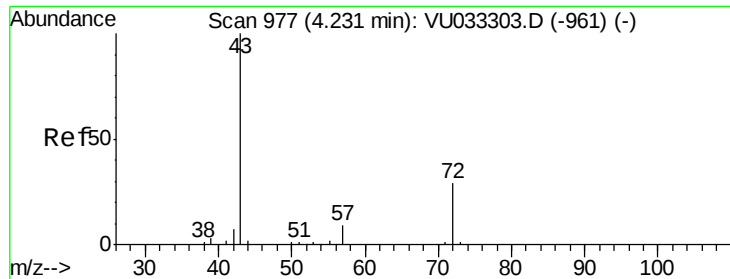
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.3	41.5
83	14.1	9.3	17.3



#20
 cis-1,2-Dichloroethene
 Concen: 48.561 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.6	91.1	169.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 85.983 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

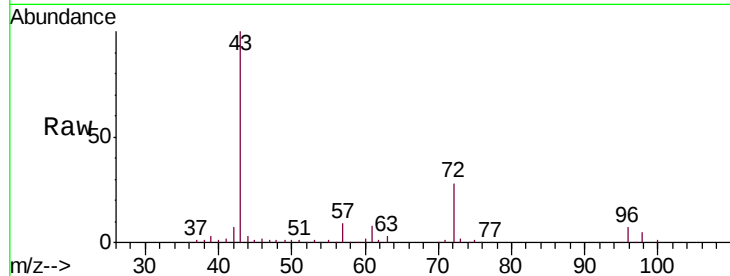
VSTD05052

Tgt Ion: 43 Resp: 217039

Ion Ratio Lower Upper

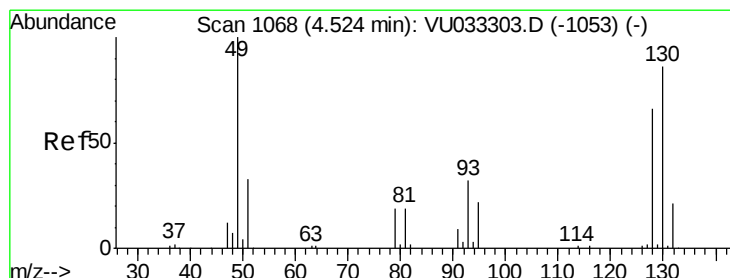
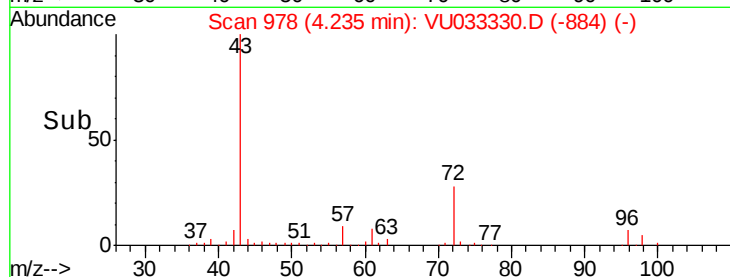
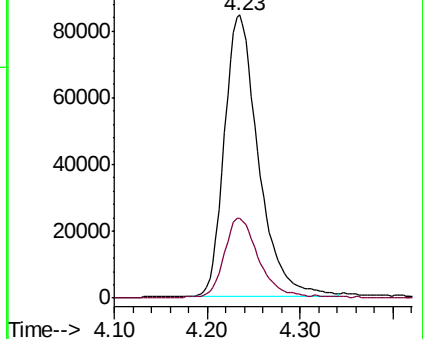
43 100

72 28.7 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033330.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033330.D (-961) (-)



#23

Bromochloromethane

Concen: 48.321 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Tgt Ion: 128 Resp: 72999

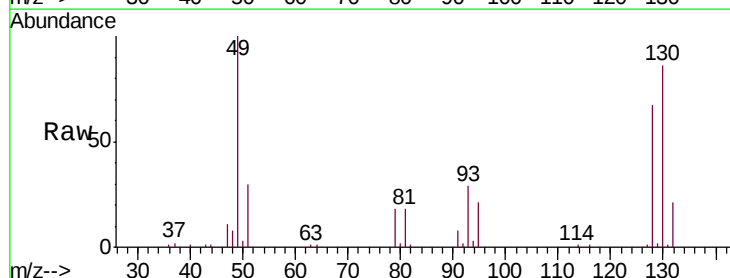
Ion Ratio Lower Upper

128 100

49 150.1 107.2 199.2

130 128.4 87.0 161.6

51 45.7 39.6 59.4

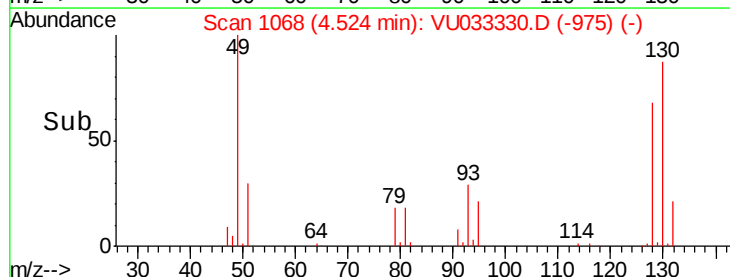
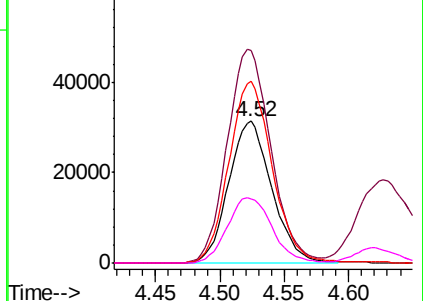


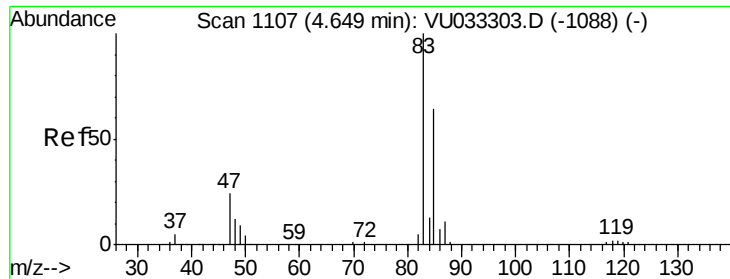
Abundance Ion 128.00 (127.70 to 128.70): VU033330.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033330.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033330.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033330.D (-1053) (-)

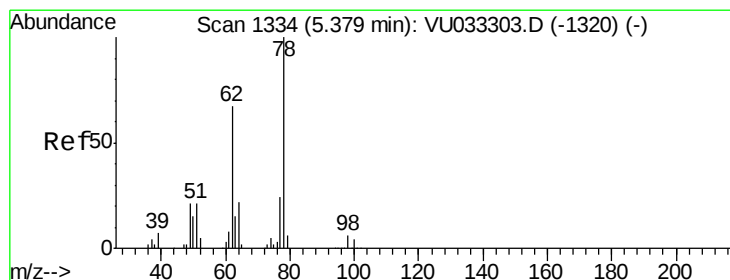
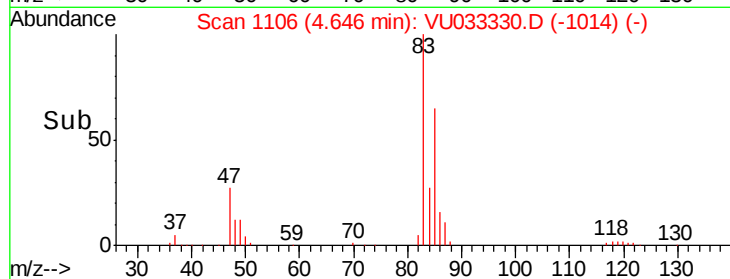
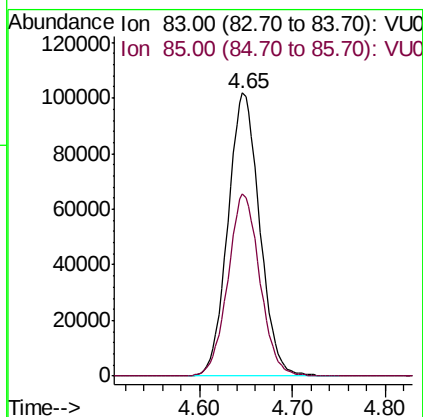
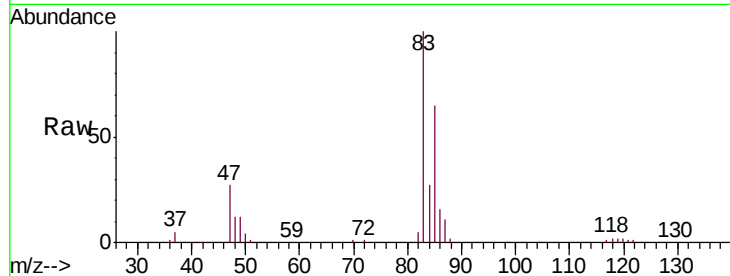




#25
Chloroform
Concen: 45.276 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

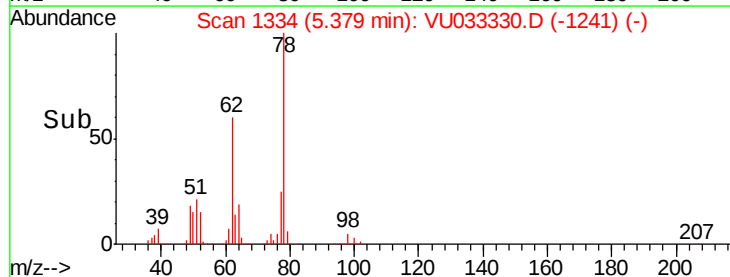
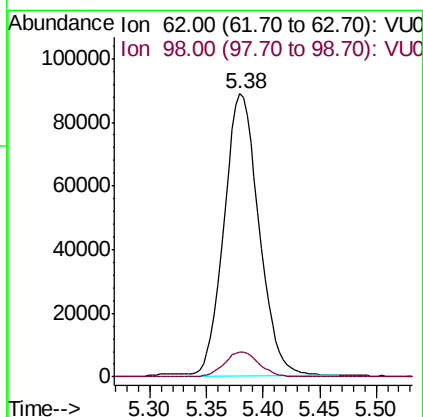
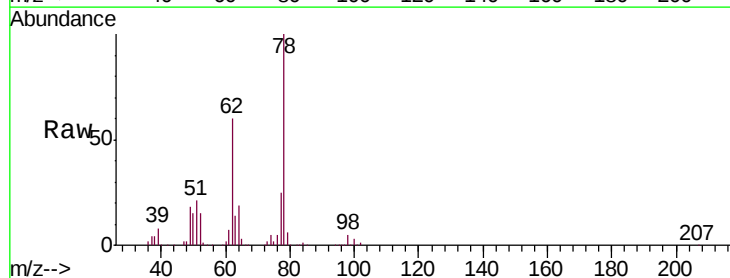
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

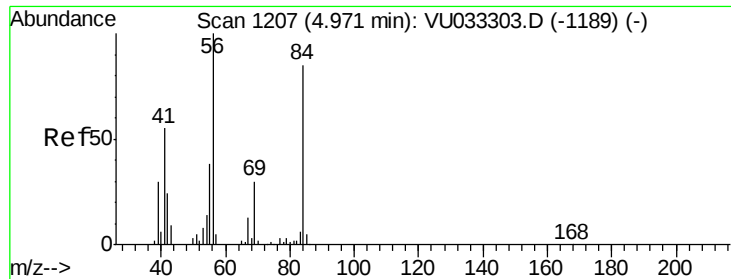
Tgt Ion: 83 Resp: 242102
Ion Ratio Lower Upper
83 100
85 64.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 46.172 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 62 Resp: 191182
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

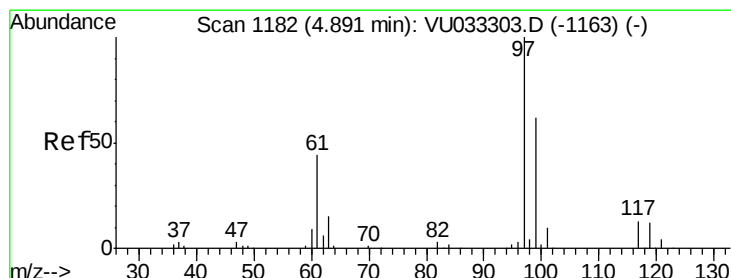
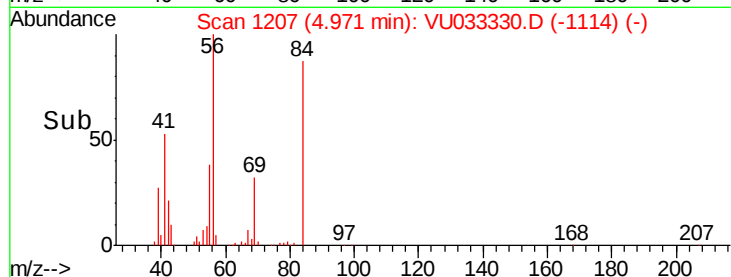
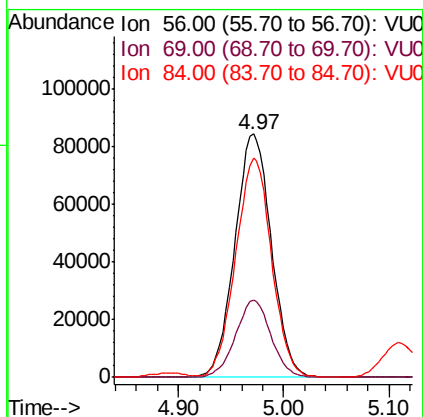
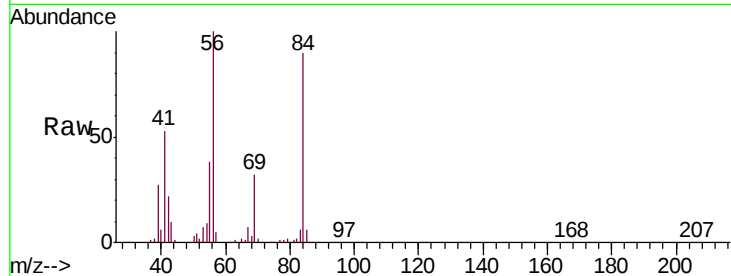




#29
Cyclohexane
Concen: 51.176 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

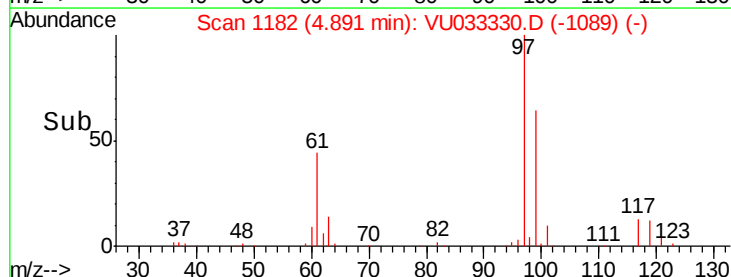
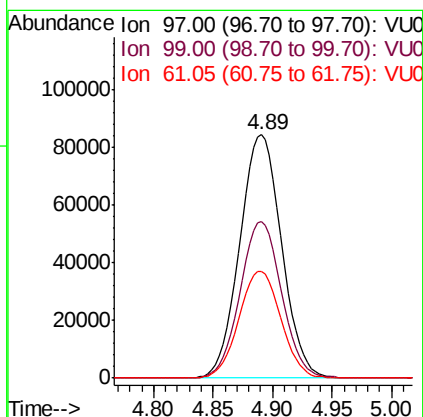
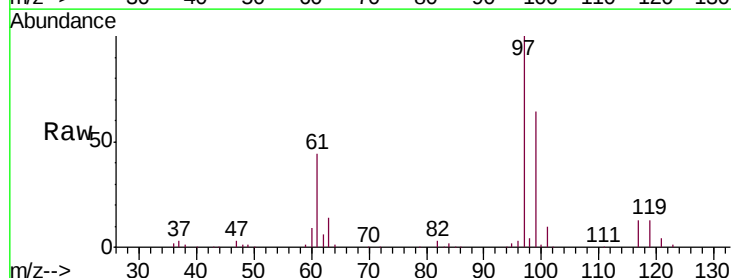
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

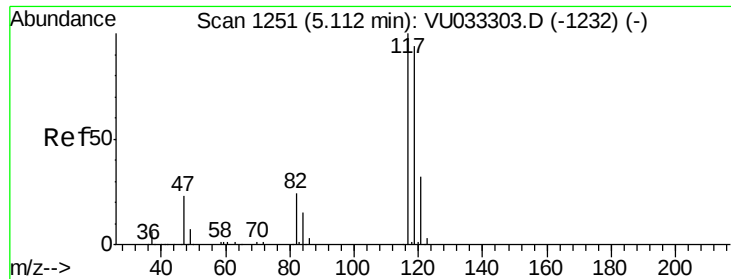
Tgt Ion: 56 Resp: 202974
Ion Ratio Lower Upper
56 100
69 30.5 24.7 37.1
84 88.5 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 48.580 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 97 Resp: 206294
Ion Ratio Lower Upper
97 100
99 63.8 51.5 77.3
61 44.1 36.4 54.6

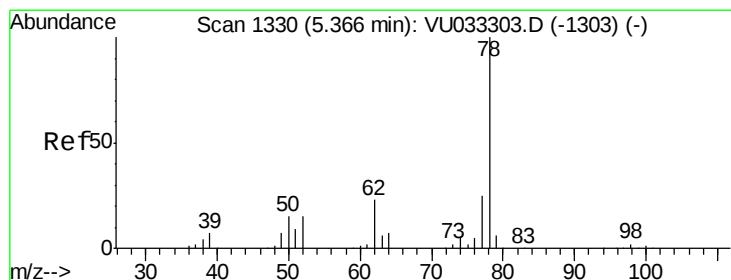
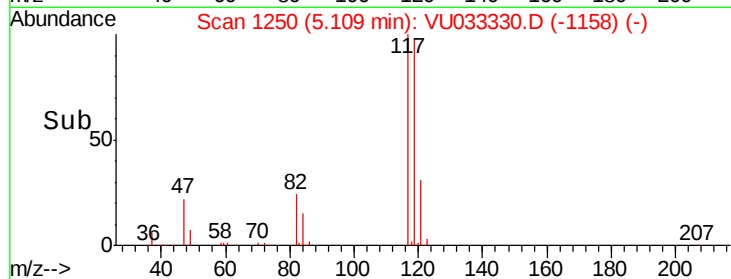
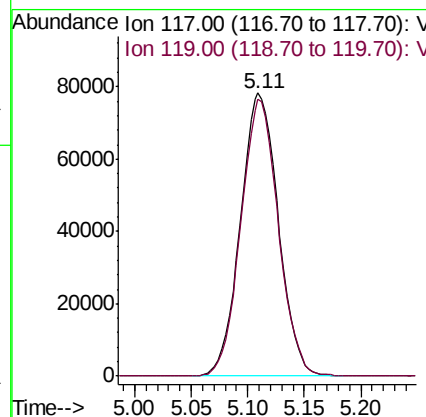
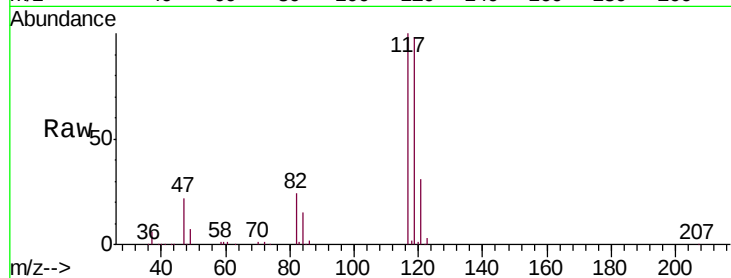




#31
Carbon tetrachloride
Concen: 49.007 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

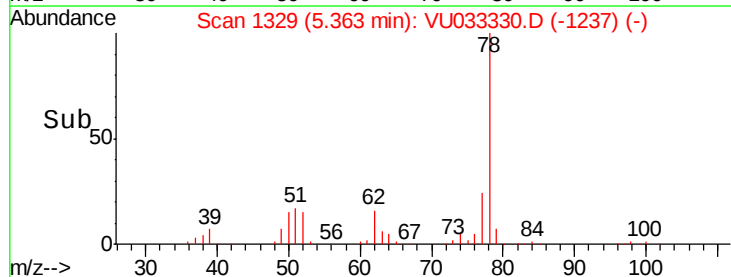
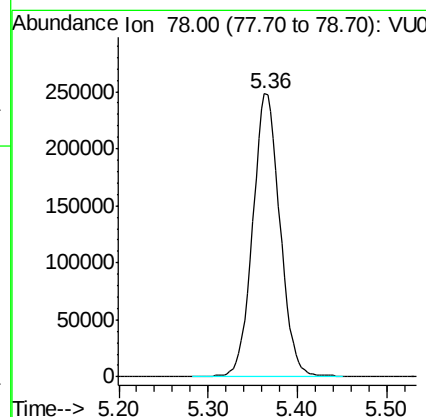
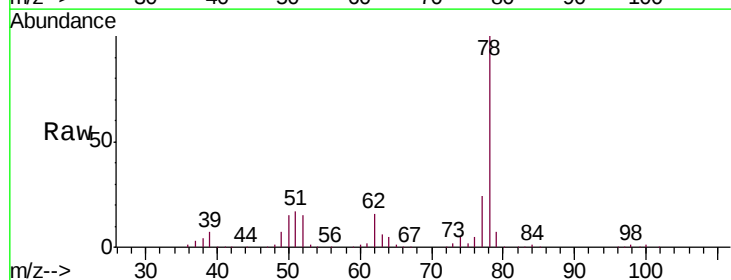
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

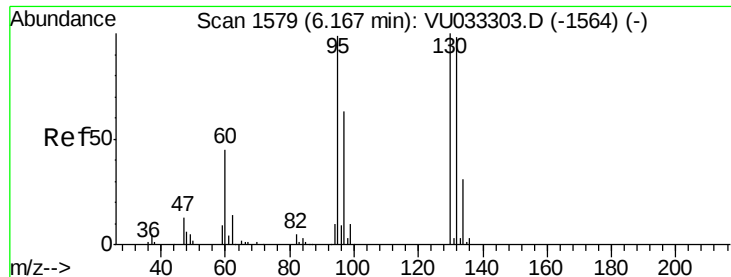
Tgt Ion:117 Resp: 182117
Ion Ratio Lower Upper
117 100
119 96.7 76.9 115.3



#33
Benzene
Concen: 49.877 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 78 Resp: 529432

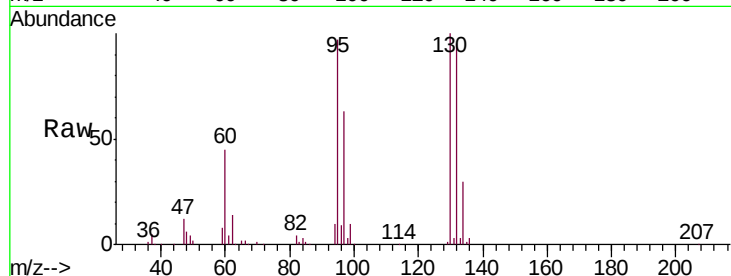




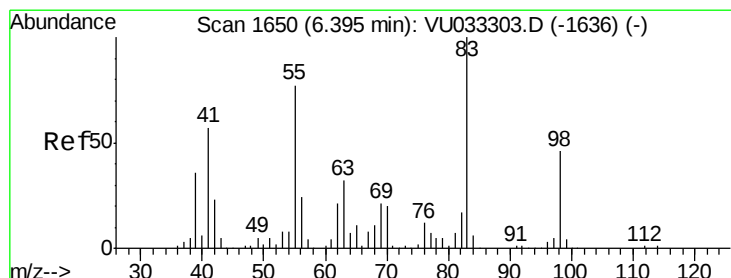
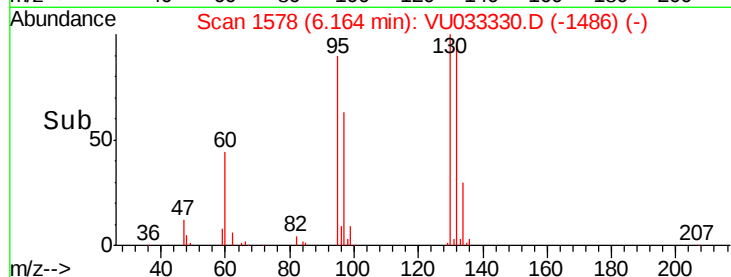
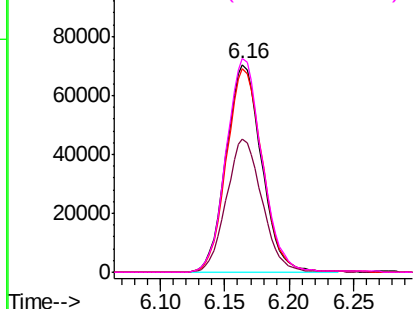
#34
 Trichloroethene
 Concen: 48.603 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion: 95 Resp: 134923
 Ion Ratio Lower Upper
 95 100
 97 64.4 43.8 81.4
 132 97.9 65.5 121.6
 130 102.8 69.7 129.5

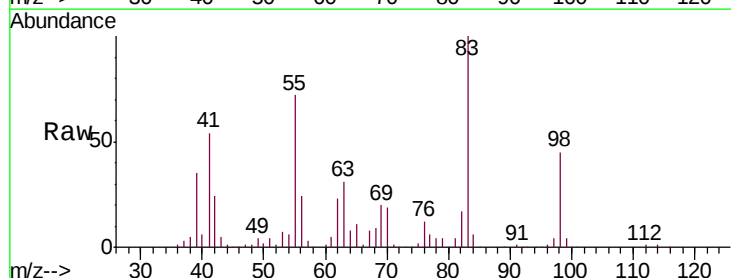


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

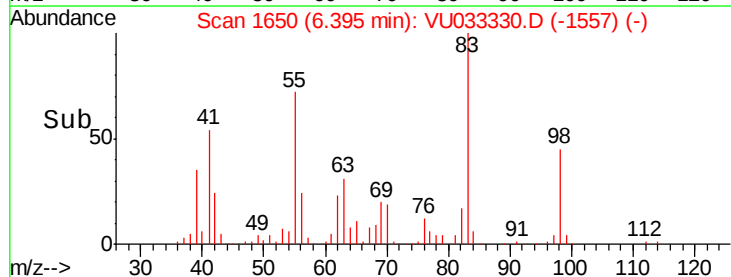
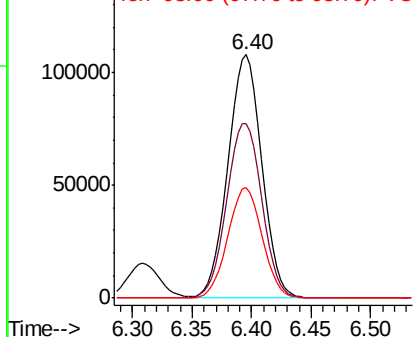


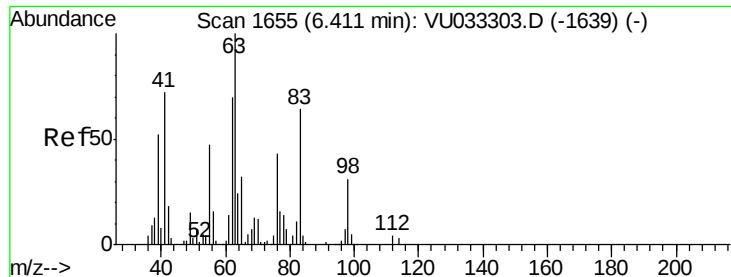
#35
 Methylcyclohexane
 Concen: 50.321 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion: 83 Resp: 213989
 Ion Ratio Lower Upper
 83 100
 55 74.2 60.5 90.7
 98 46.0 37.4 56.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 48.981 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

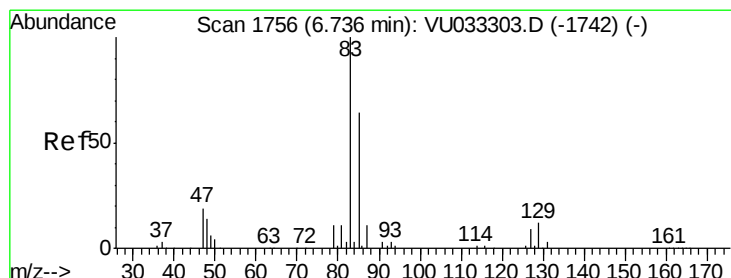
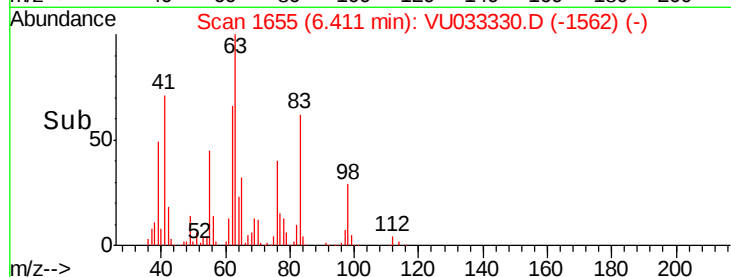
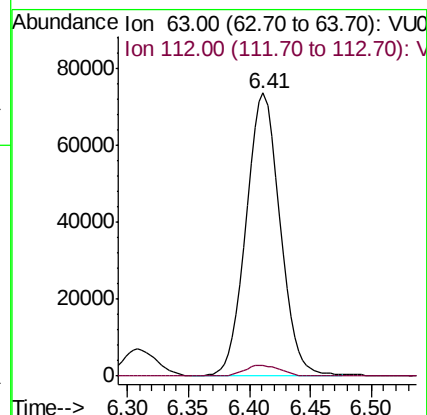
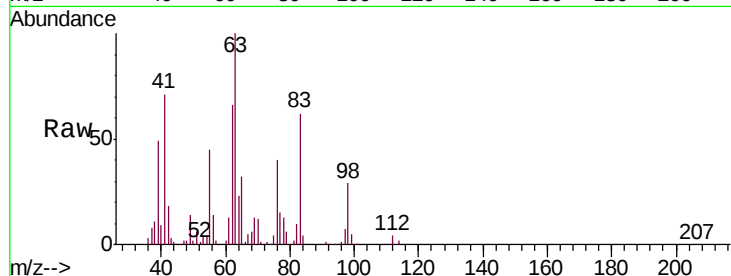
VSTD05052

Tgt Ion: 63 Resp: 141001

Ion Ratio Lower Upper

63 100

112 4.0 3.2 4.8



#38

Bromodichloromethane

Concen: 47.313 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

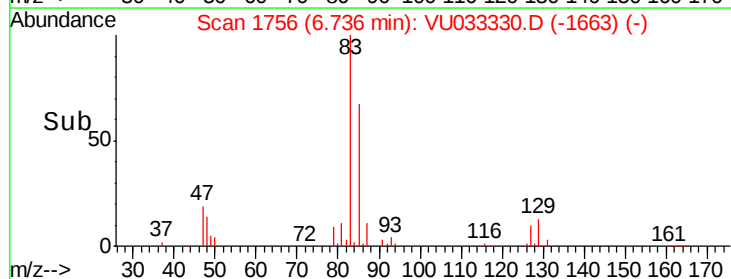
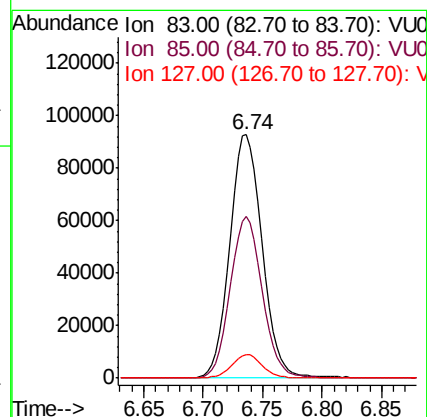
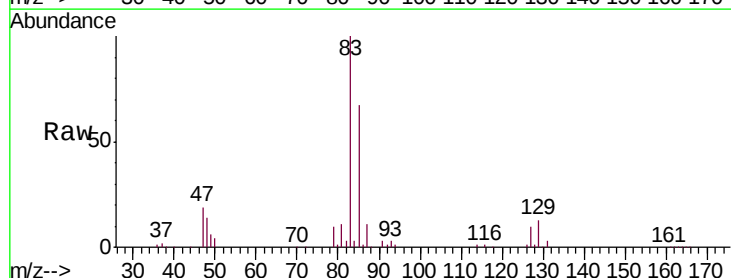
Tgt Ion: 83 Resp: 175687

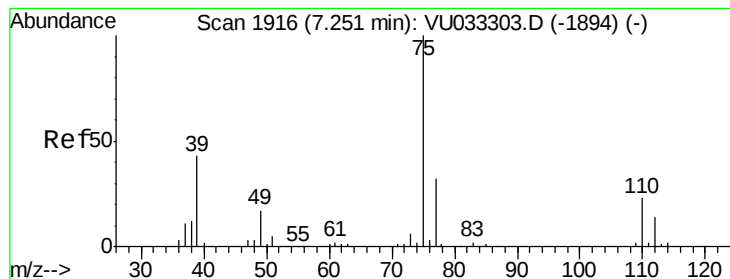
Ion Ratio Lower Upper

83 100

85 66.6 45.8 85.0

127 9.8 6.8 10.2



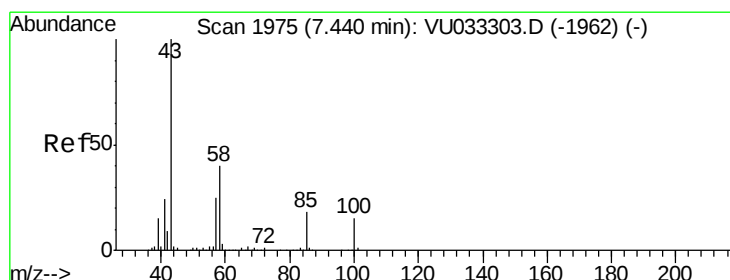
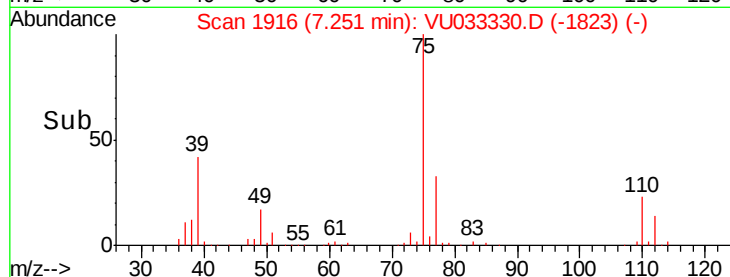
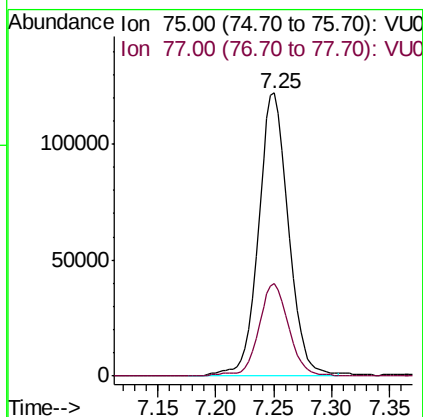
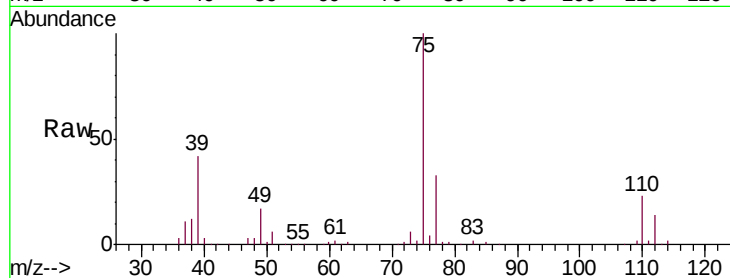


#39

cis-1,3-Dichloropropene
Concen: 49.943 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

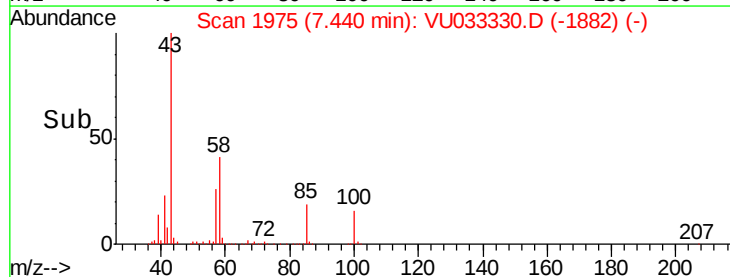
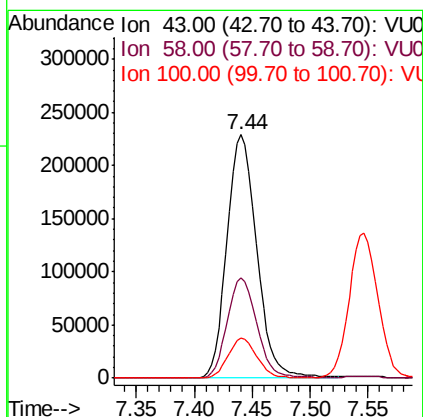
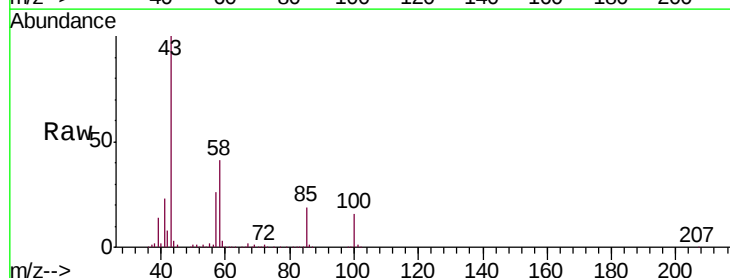
Tgt Ion: 75 Resp: 220433
Ion Ratio Lower Upper
75 100
77 32.6 23.1 42.9

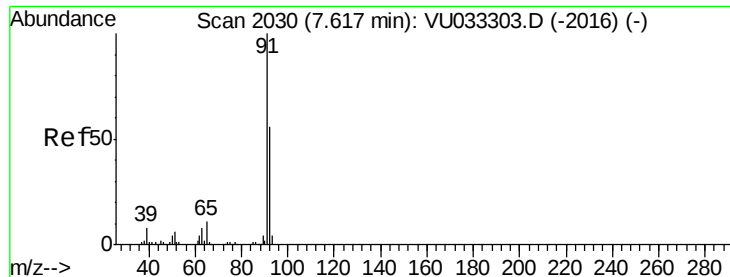


#40

4-Methyl-2-pentanone
Concen: 105.703 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 43 Resp: 408197
Ion Ratio Lower Upper
43 100
58 41.0 33.3 49.9
100 15.8 12.1 18.1





#42

Toluene

Concen: 50.863 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

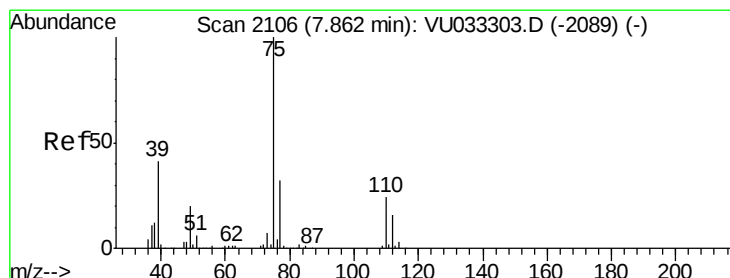
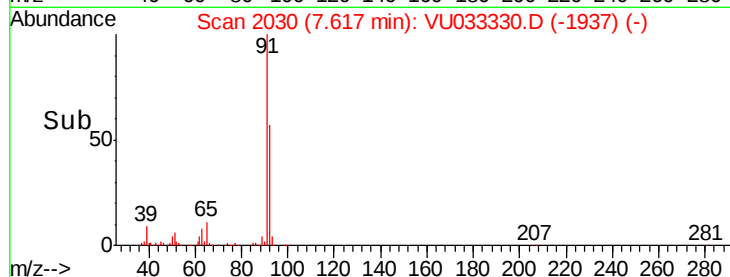
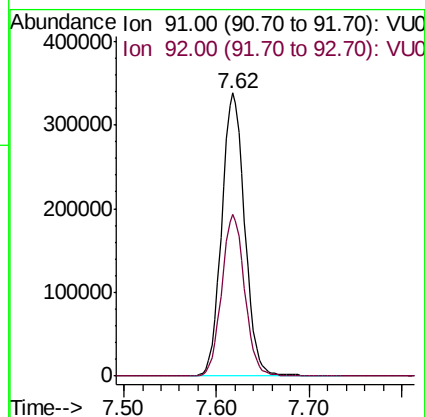
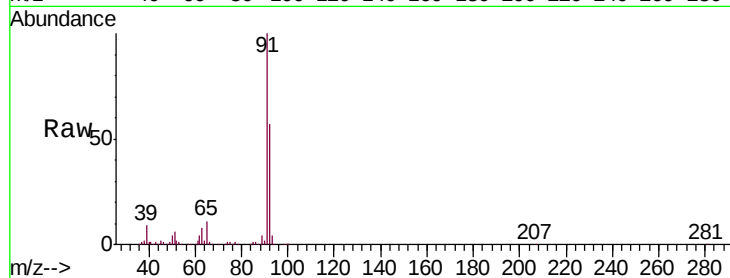
VSTD05052

Tgt Ion: 91 Resp: 582067

Ion Ratio Lower Upper

91 100

92 57.1 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 50.020 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033330.D

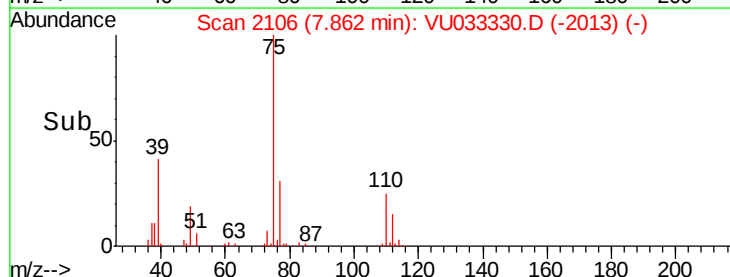
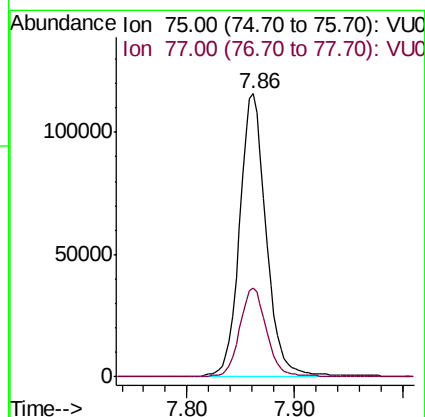
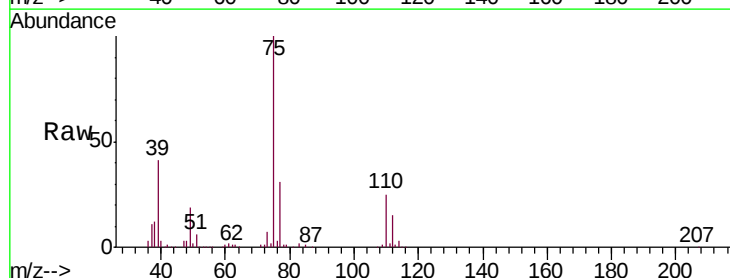
Acq: 18 Jul 2019 20:12

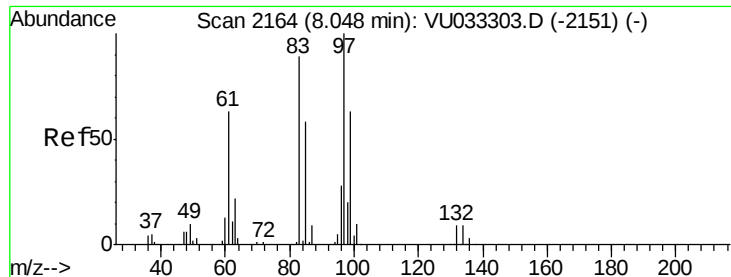
Tgt Ion: 75 Resp: 199104

Ion Ratio Lower Upper

75 100

77 31.3 22.4 41.6

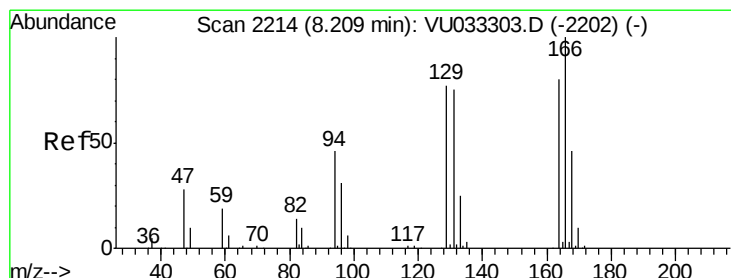
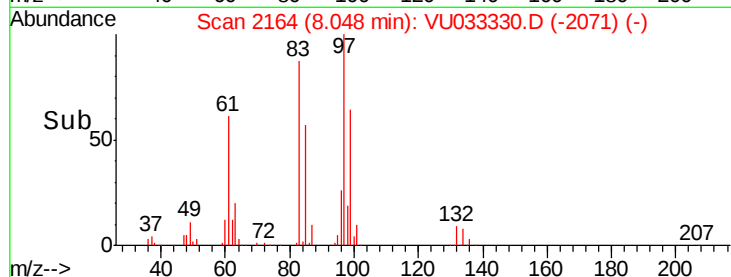
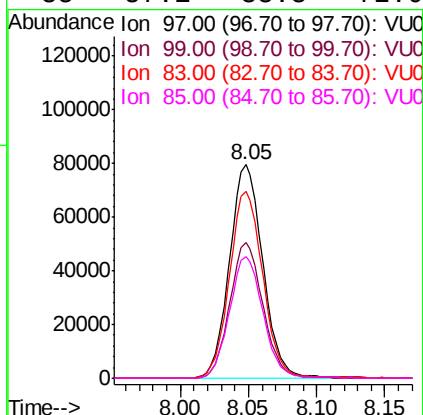
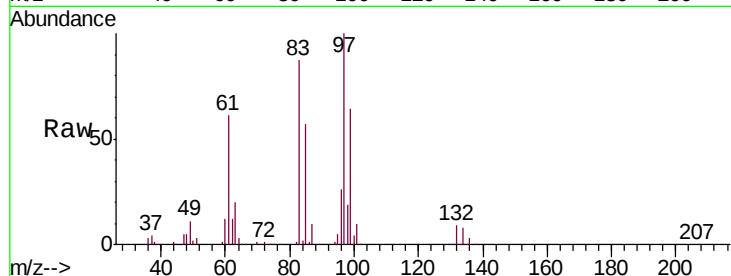




#45
 1,1,2-Trichloroethane
 Concen: 49.649 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

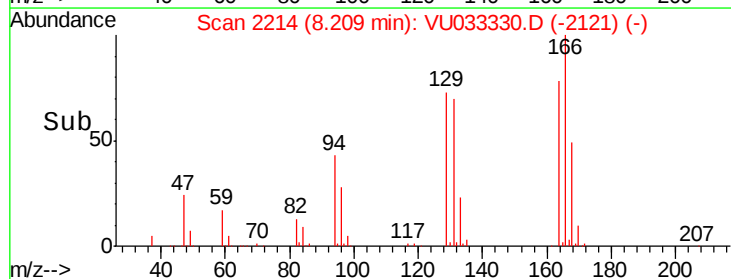
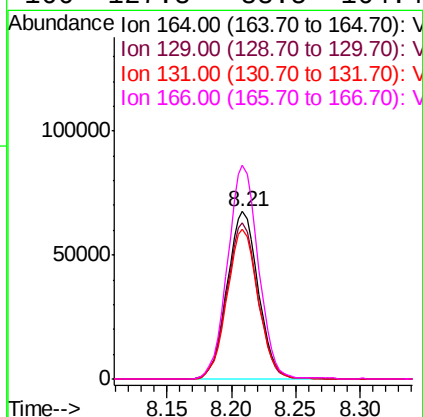
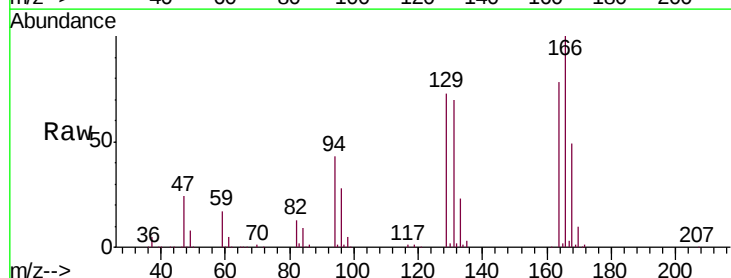
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

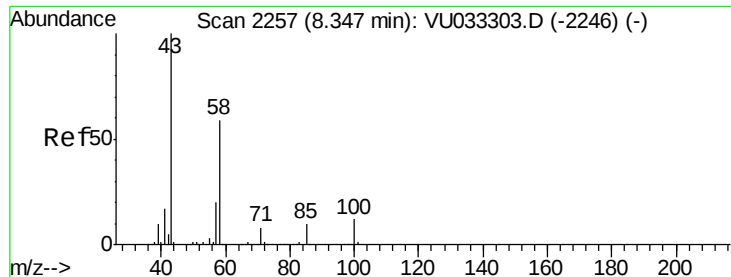
Tgt Ion: 97 Resp: 135172
 Ion Ratio Lower Upper
 97 100
 99 63.8 43.0 79.8
 83 87.5 61.5 114.3
 85 57.1 38.8 72.0



#46
 Tetrachloroethene
 Concen: 52.729 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion: 164 Resp: 113316
 Ion Ratio Lower Upper
 164 100
 129 93.5 69.6 129.2
 131 89.9 65.7 122.1
 166 127.8 88.5 164.4

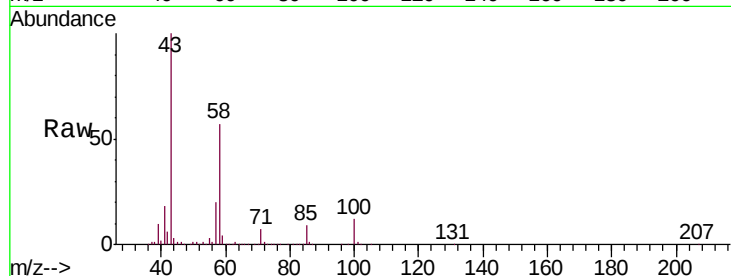




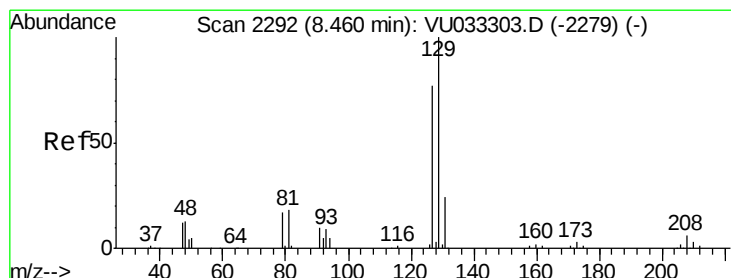
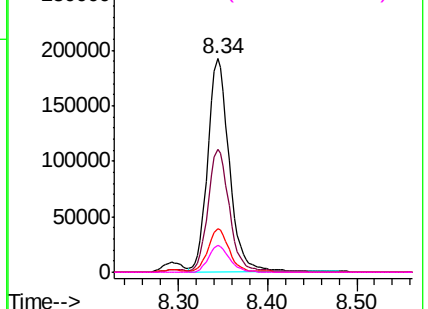
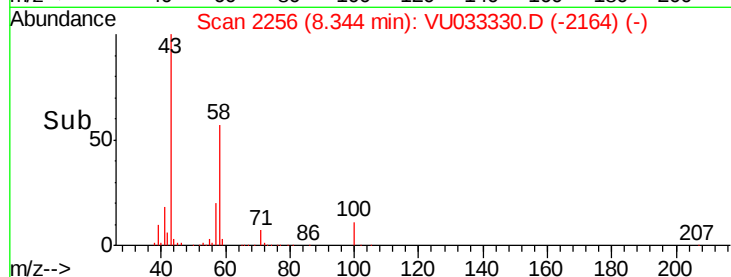
#48
2-Hexanone
Concen: 102.392 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Tgt Ion: 43 Resp: 322132
Ion Ratio Lower Upper
43 100
58 56.5 46.1 69.1
57 19.9 15.8 23.8
100 12.1 9.4 14.2

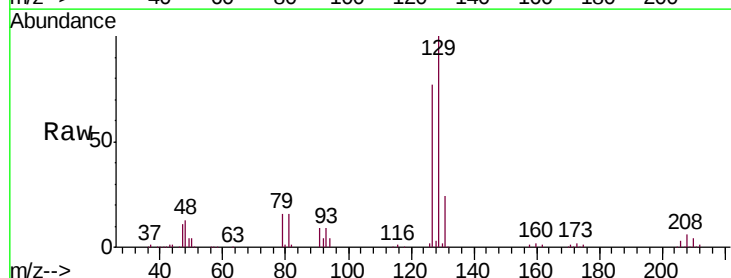


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

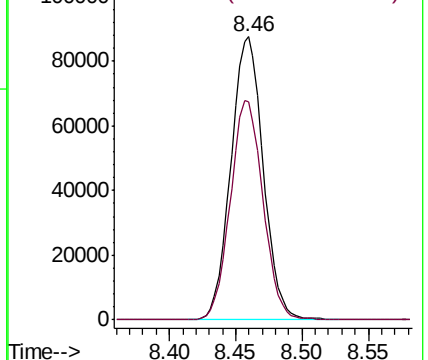
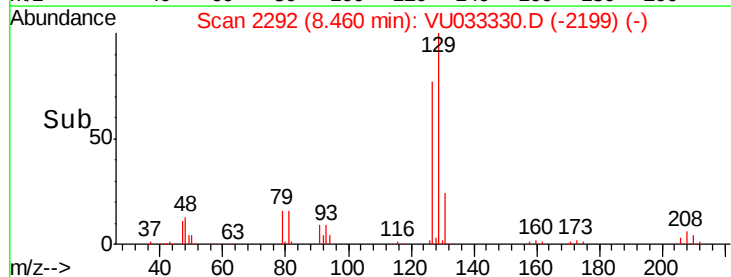


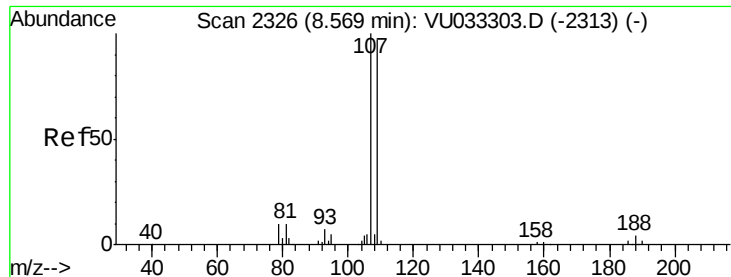
#49
Dibromochloromethane
Concen: 48.928 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033330.D
Acq: 18 Jul 2019 20:12

Tgt Ion: 129 Resp: 148595
Ion Ratio Lower Upper
129 100
127 76.9 54.3 100.9



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

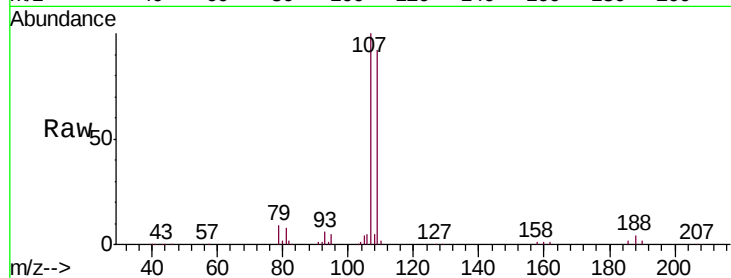




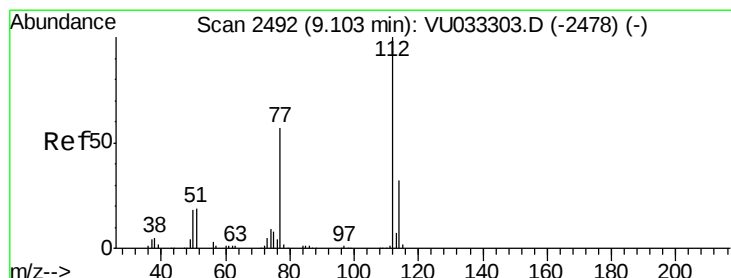
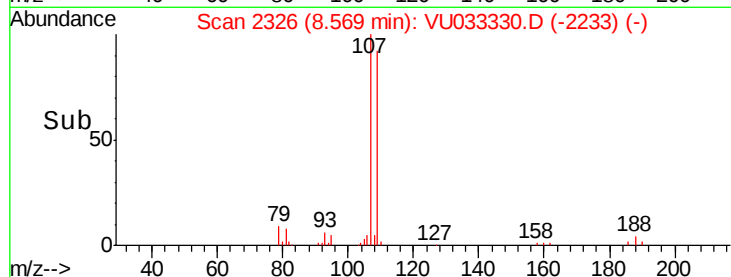
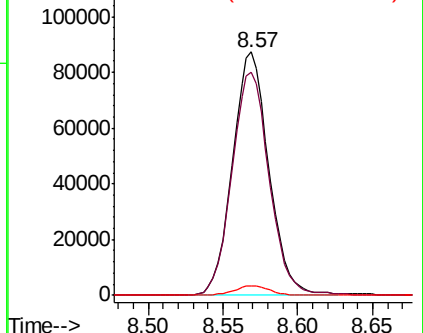
#50
 1,2-Dibromoethane
 Concen: 49.660 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.8	64.2	119.2
188	4.1	2.6	4.0#

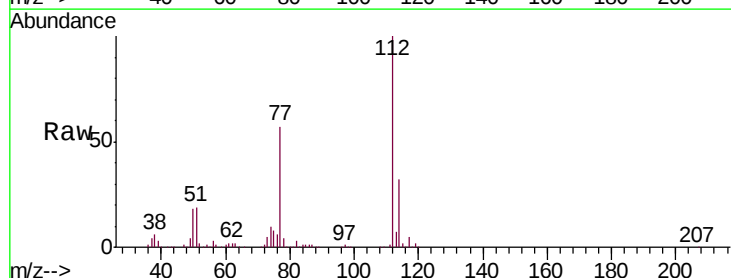


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

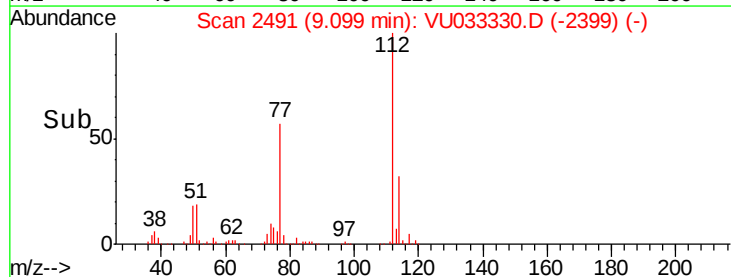
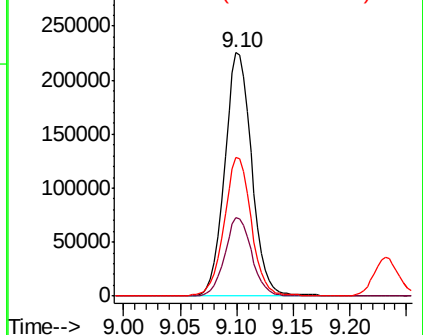


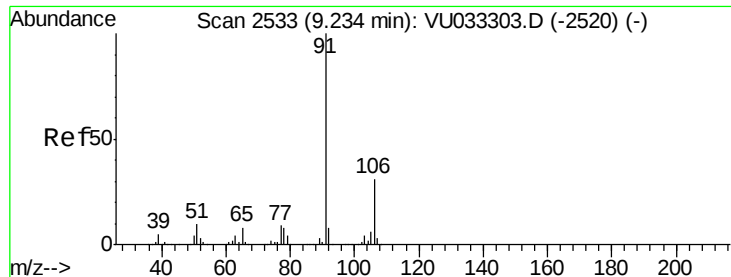
#51
 Chlorobenzene
 Concen: 50.165 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.3	41.3
77	56.7	47.2	70.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 51.931 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

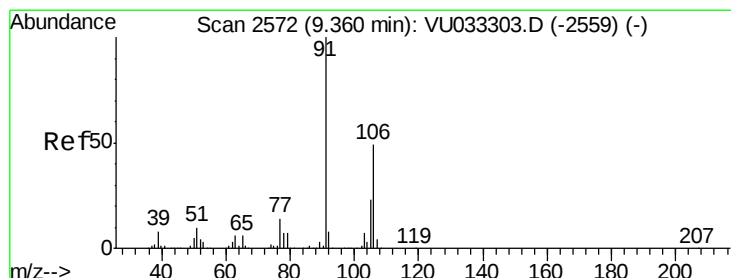
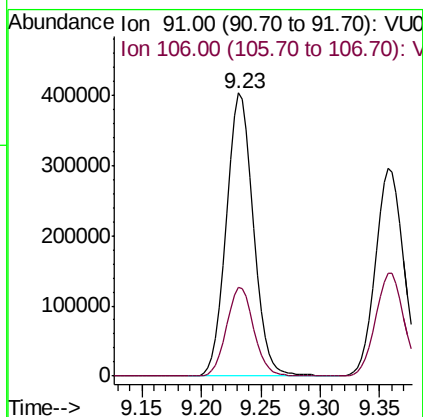
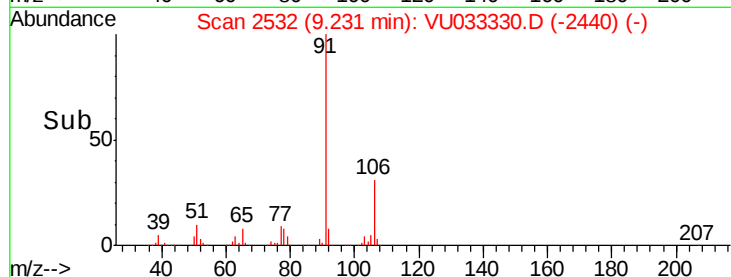
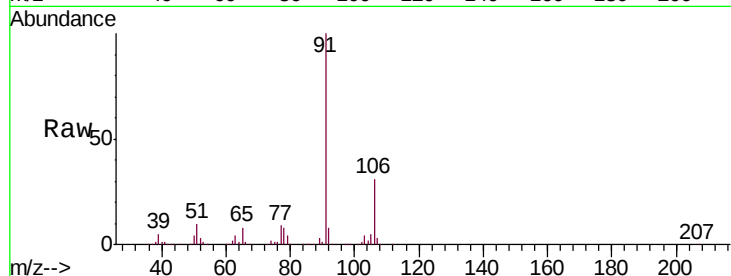
VSTD05052

Tgt Ion: 91 Resp: 635928

Ion Ratio Lower Upper

91 100

106 31.2 22.2 41.2



#53

m,p-Xylene

Concen: 53.103 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033330.D

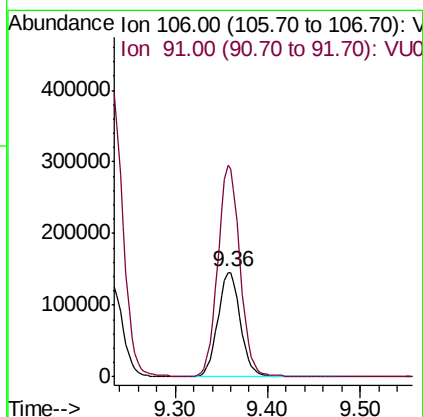
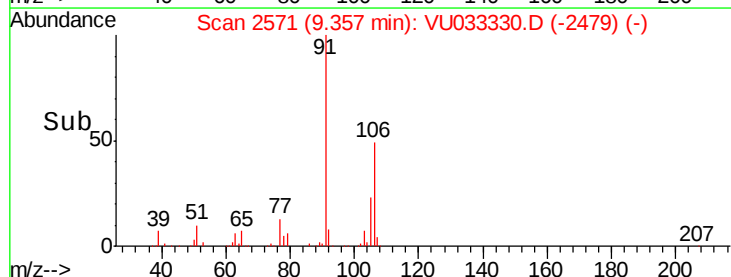
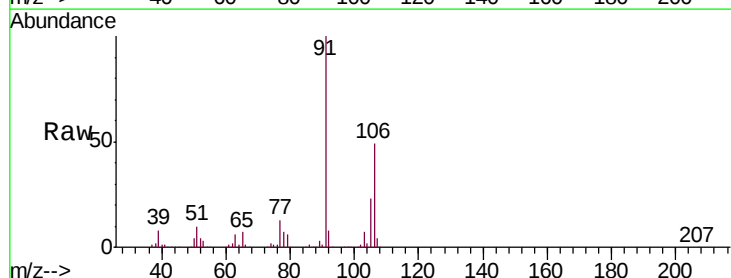
Acq: 18 Jul 2019 20:12

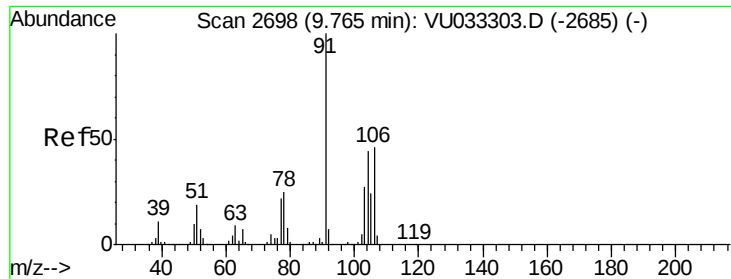
Tgt Ion: 106 Resp: 246307

Ion Ratio Lower Upper

106 100

91 202.6 141.3 262.3





#54

o-xylene

Concen: 52.590 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

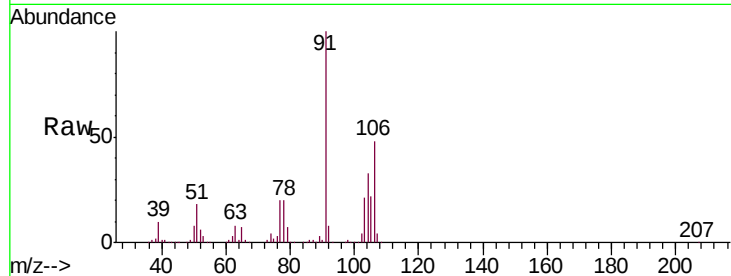
VSTD05052

Tgt Ion:106 Resp: 242209

Ion Ratio Lower Upper

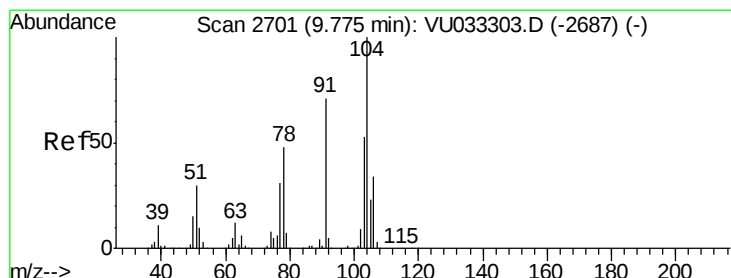
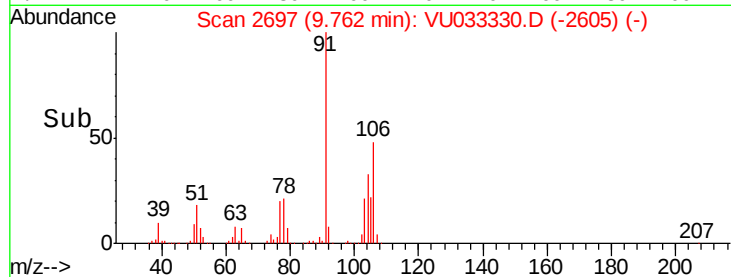
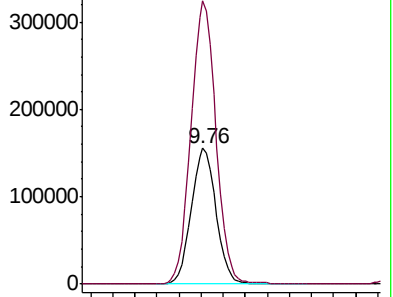
106 100

91 208.1 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.324 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033330.D

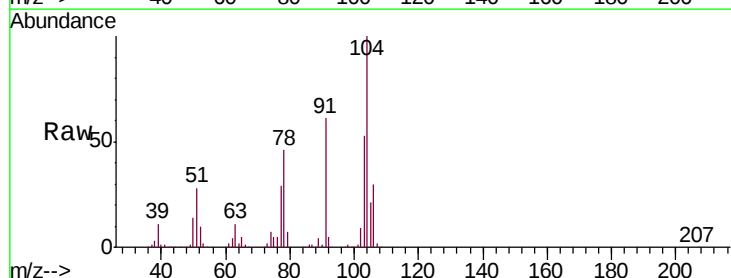
Acq: 18 Jul 2019 20:12

Tgt Ion:104 Resp: 408560

Ion Ratio Lower Upper

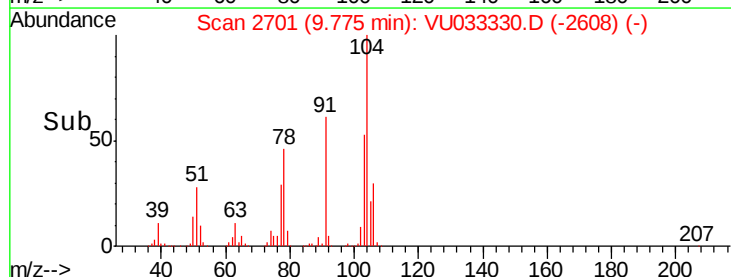
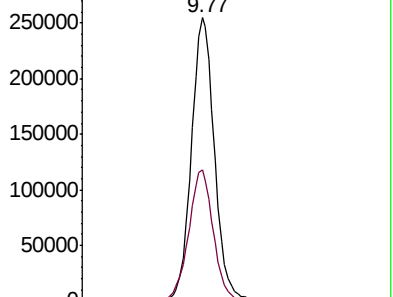
104 100

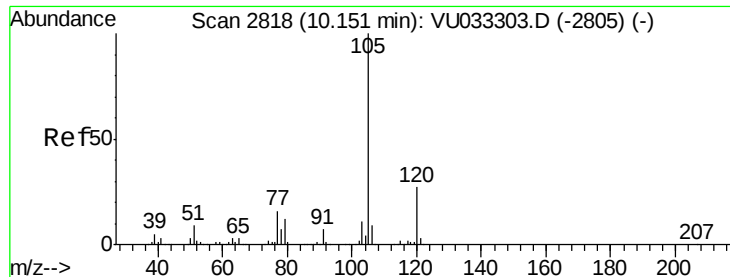
78 46.2 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.323 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

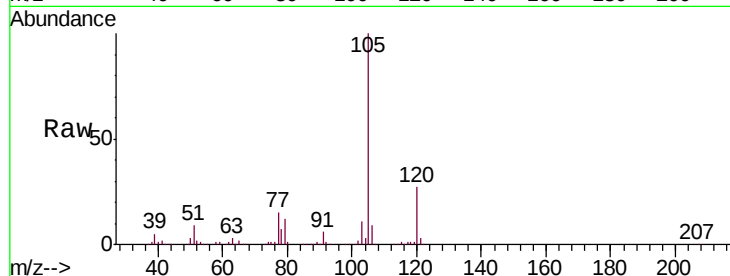
Tgt Ion:105 Resp: 620097

Ion Ratio Lower Upper

105 100

120 27.1 21.2 31.8

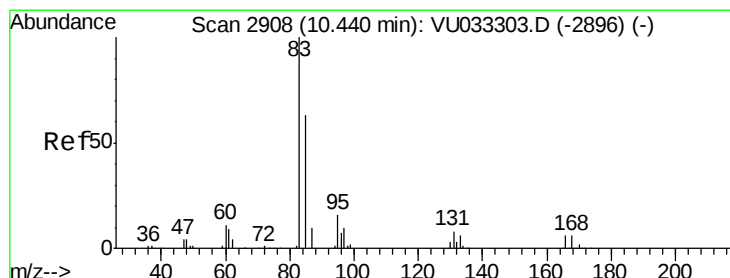
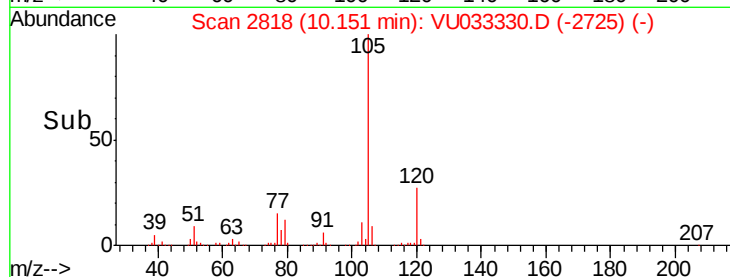
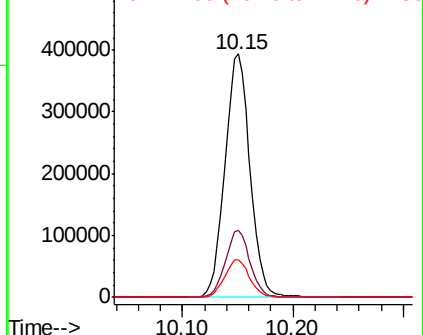
77 15.4 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.229 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

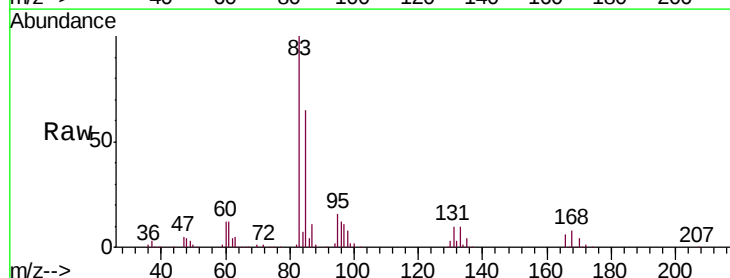
Tgt Ion: 83 Resp: 235427

Ion Ratio Lower Upper

83 100

85 64.7 44.9 83.3

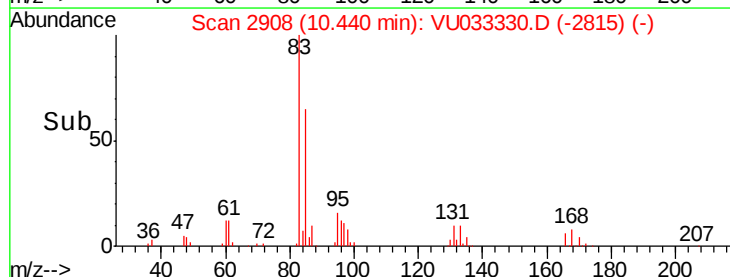
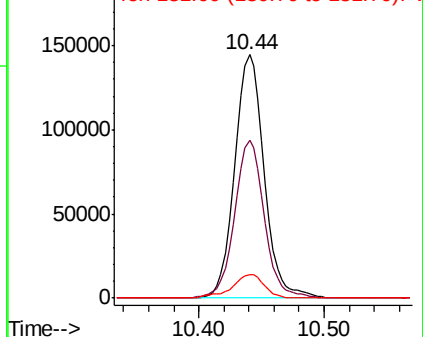
131 9.7 7.6 11.4

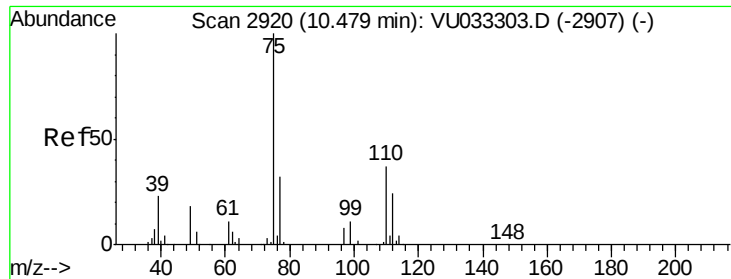


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

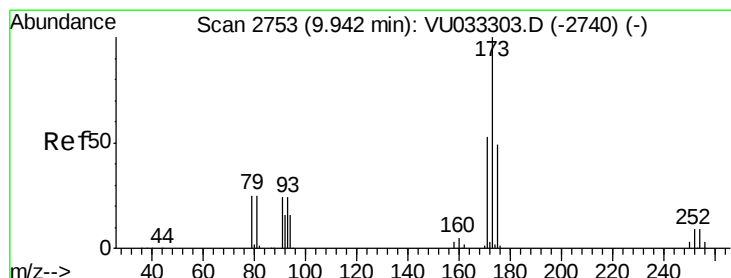
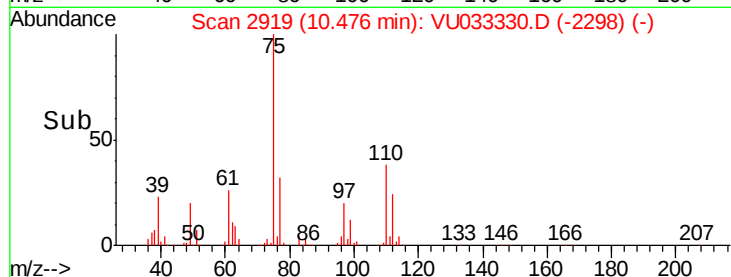
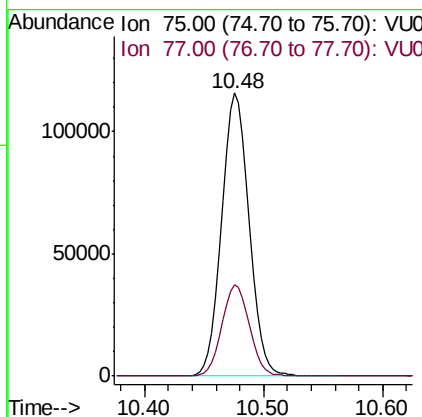
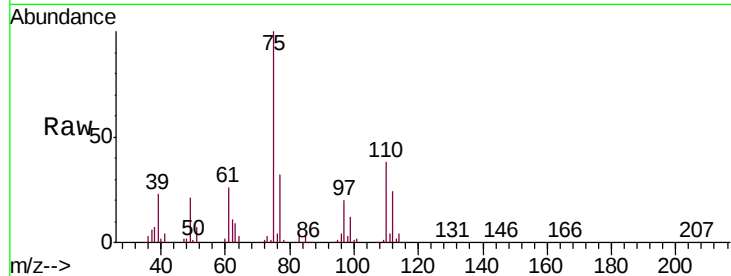




#59
 1,2,3-Trichloropropane
 Concen: 49.529 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

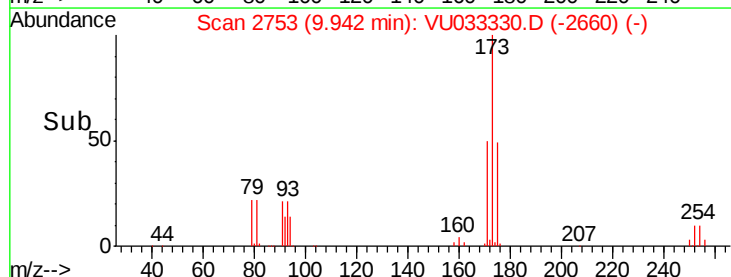
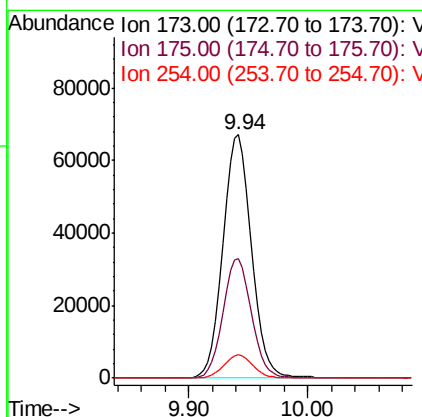
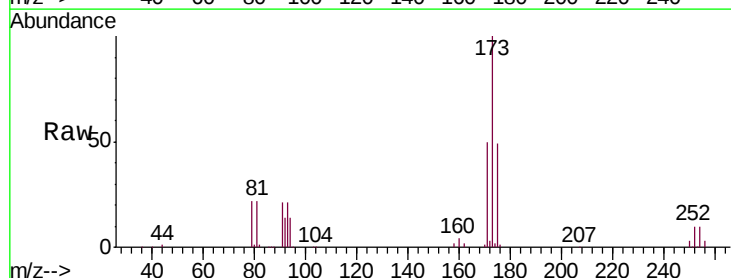
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

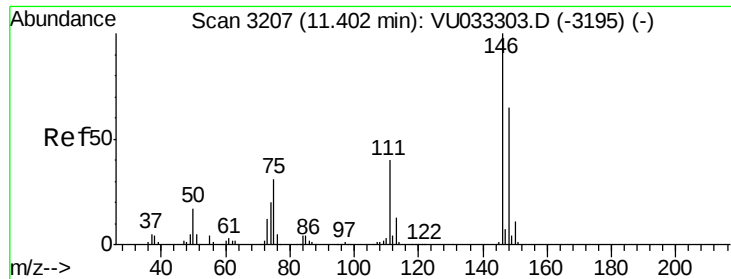
Tgt Ion: 75 Resp: 185614
 Ion Ratio Lower Upper
 75 100
 77 32.5 26.0 39.0



#61
 Bromoform
 Concen: 47.720 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion: 173 Resp: 111526
 Ion Ratio Lower Upper
 173 100
 175 48.9 40.0 60.0
 254 9.4 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 50.266 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

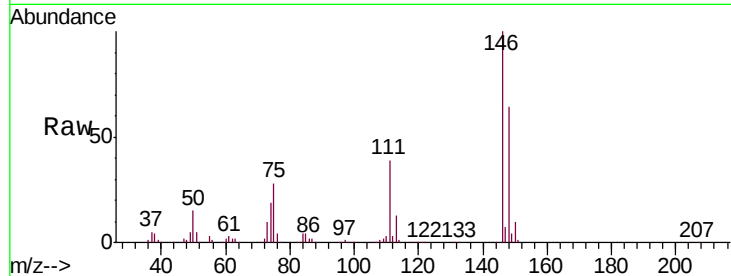
Tgt Ion:146 Resp: 296093

Ion Ratio Lower Upper

146 100

111 38.6 28.0 52.0

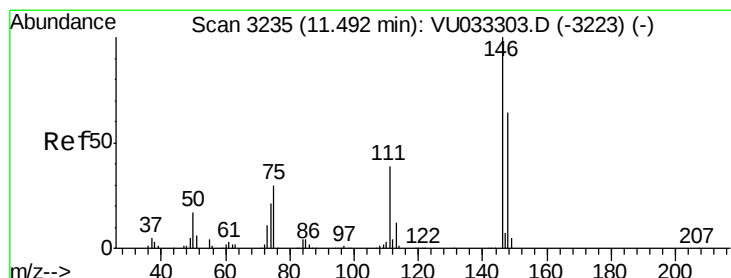
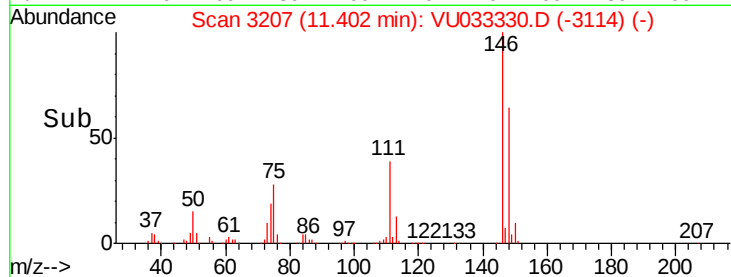
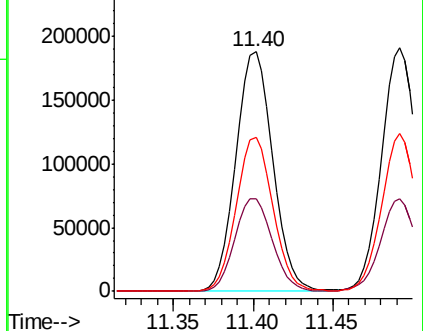
148 64.3 44.7 83.1



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



#63

1,4-Dichlorobenzene

Concen: 48.897 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

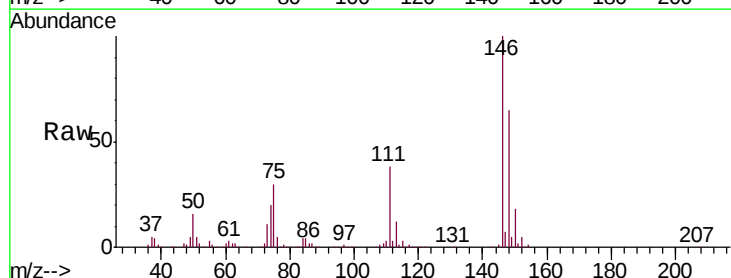
Tgt Ion:146 Resp: 301159

Ion Ratio Lower Upper

146 100

111 37.8 27.8 51.6

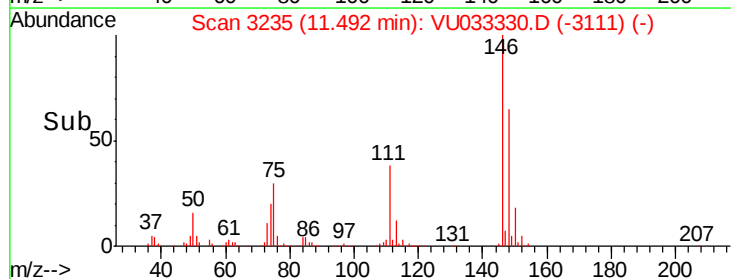
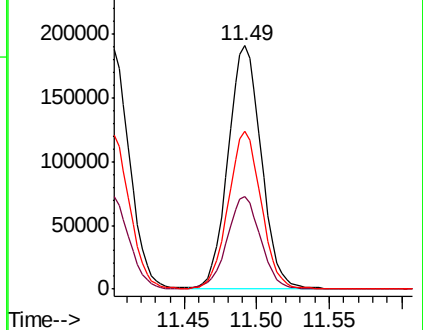
148 64.8 44.6 82.8

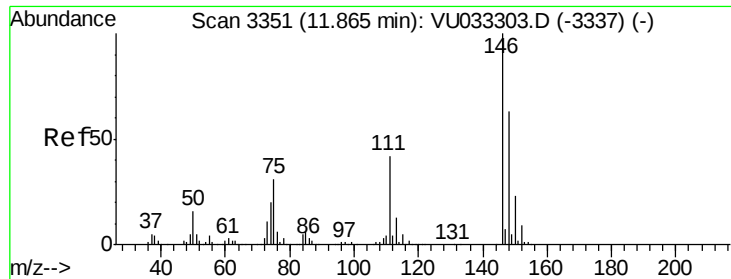


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

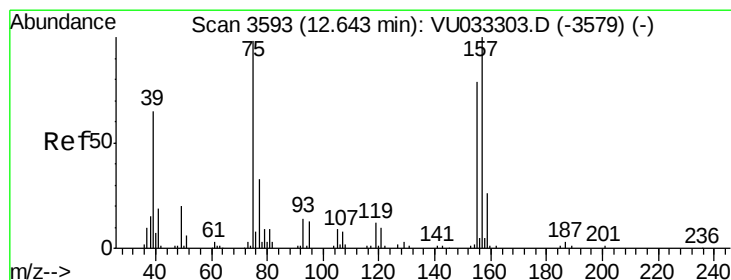
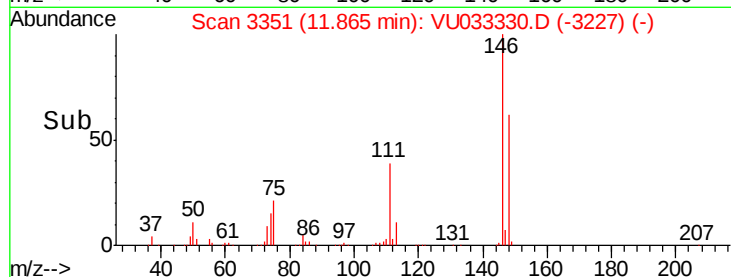
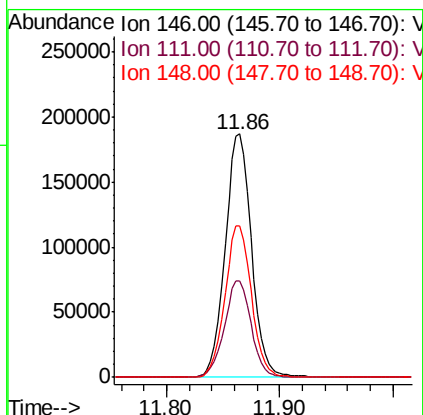
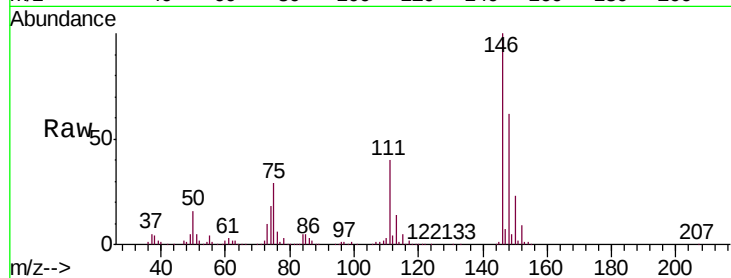




#65
 1,2-Dichlorobenzene
 Concen: 50.058 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

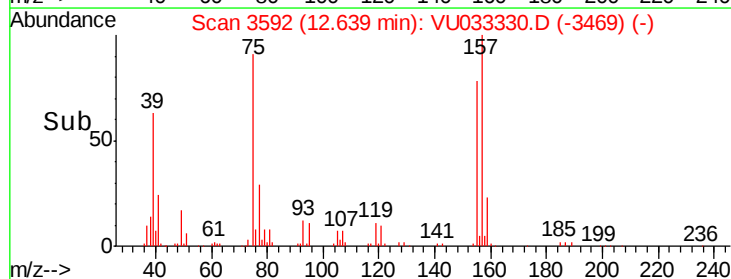
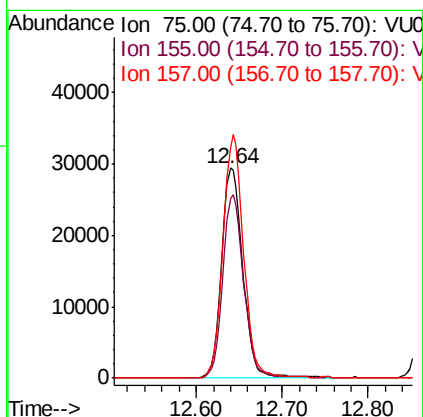
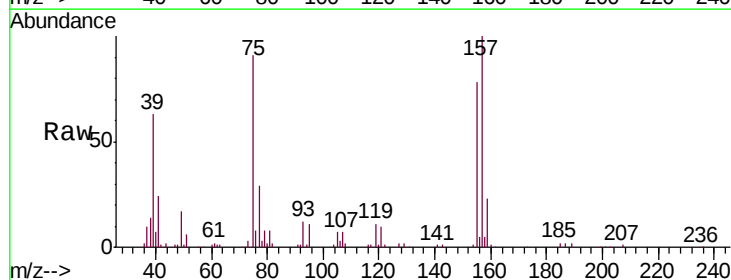
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

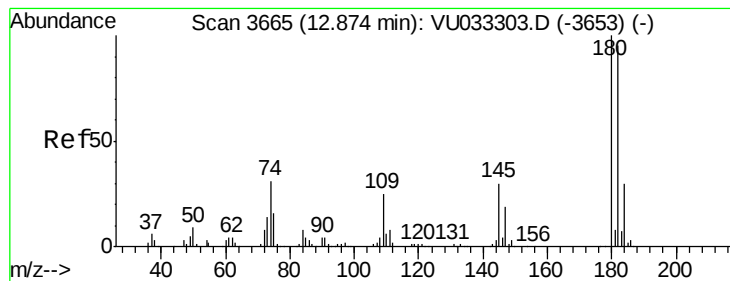
Tgt Ion: 146 Resp: 302409
 Ion Ratio Lower Upper
 146 100
 111 39.6 34.3 51.5
 148 62.1 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.241 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033330.D
 Acq: 18 Jul 2019 20:12

Tgt Ion: 75 Resp: 51011
 Ion Ratio Lower Upper
 75 100
 155 85.3 63.5 95.3
 157 109.9 84.6 127.0





#67

1,3,5-Trichlorobenzene

Concen: 52.890 ug/L

RT: 12.87 min Scan# 3665

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion:180 Resp: 225154

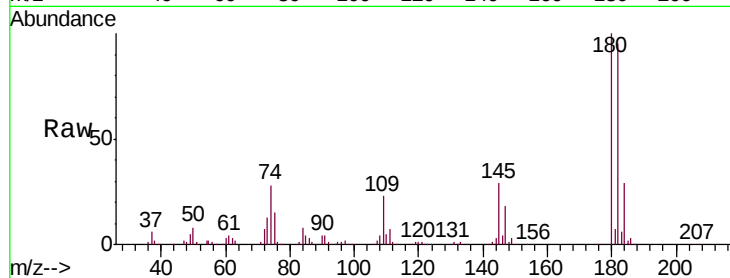
Ion Ratio Lower Upper

180 100

182 94.9 75.5 113.3

184 29.8 24.2 36.2

145 28.5 24.1 36.1

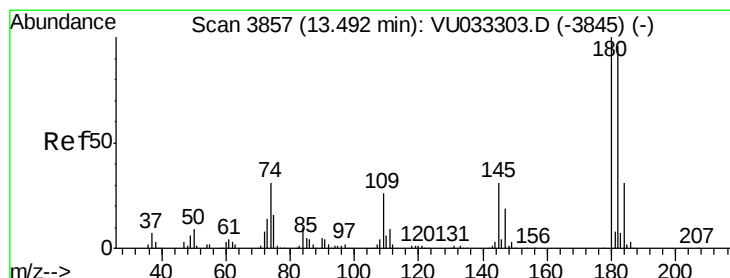
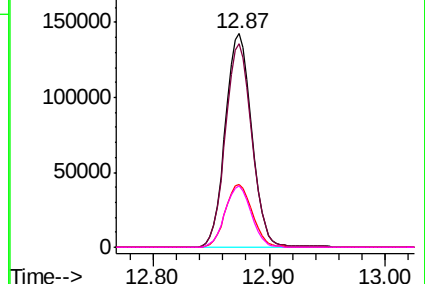
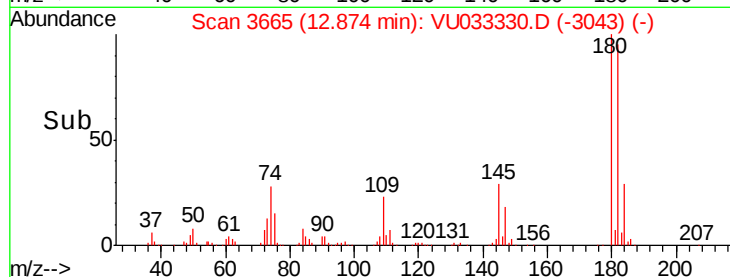


Abundance Ion 180.00 (179.70 to 180.70): V

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: 54.023 ug/L

RT: 13.49 min Scan# 3857

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

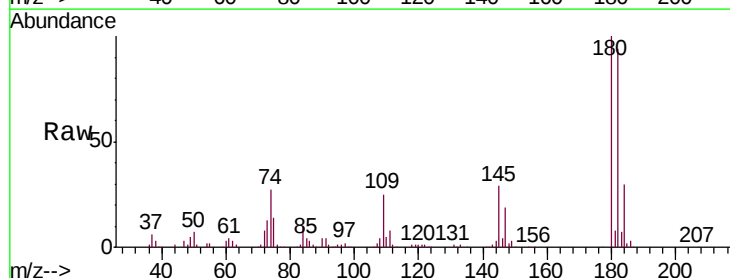
Tgt Ion:180 Resp: 200881

Ion Ratio Lower Upper

180 100

182 94.7 76.5 114.7

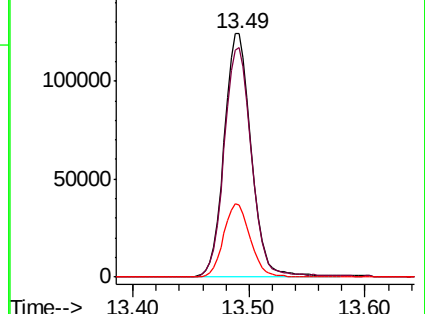
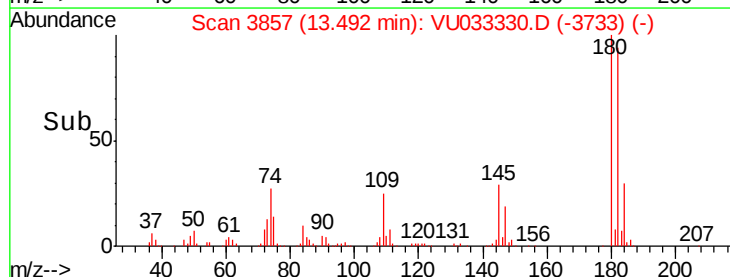
145 29.5 24.6 36.8

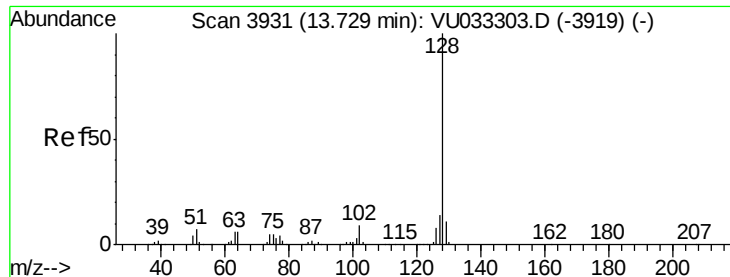


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.347 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

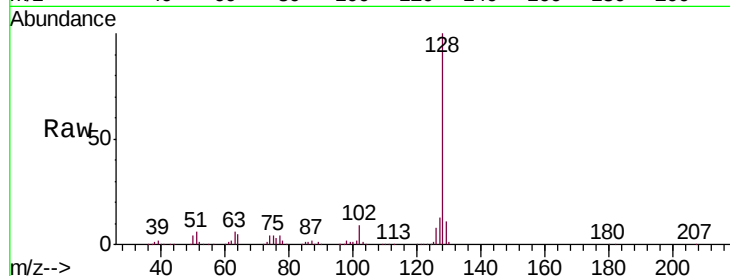
Tgt Ion:128 Resp: 647959

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

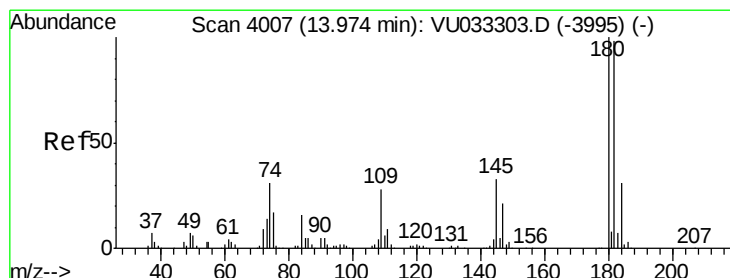
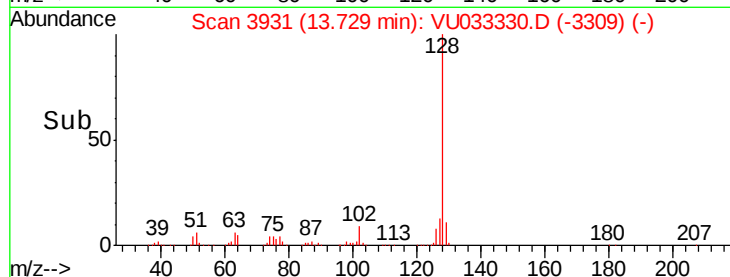
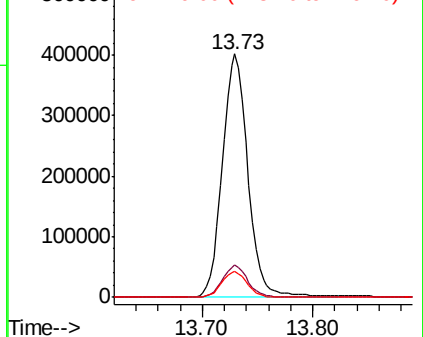
129 10.5 8.7 13.1



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



#70

1,2,3-Trichlorobenzene

Concen: 51.664 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033330.D

Acq: 18 Jul 2019 20:12

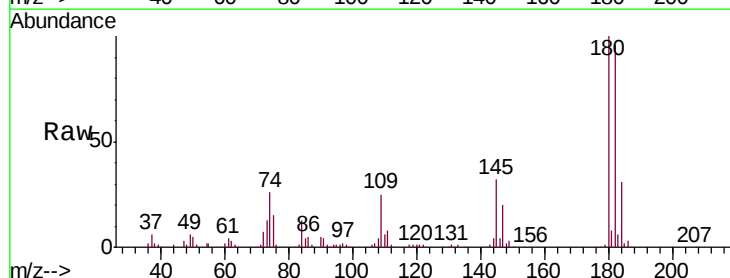
Tgt Ion:180 Resp: 208565

Ion Ratio Lower Upper

180 100

182 94.5 77.4 116.2

145 31.2 26.2 39.2



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

