

Data File : VU034844.D
Acq On : 26 Sep 2019 15:41
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Quant Time: Sep 27 05:03:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Sep 18 18:16:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	131206	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	124456	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	62839	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	43024	4.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.40%
7) Chloroethane-d5	1.67	69	35165	4.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.00%
11) 1,1-Dichloroethene-d2	2.26	63	83118	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.20%
20) 2-Butanone-d5	4.16	46	125418	48.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.74%
24) Chloroform-d	4.62	84	66089	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
26) 1,2-Dichloroethane-d4	5.29	65	36486	4.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.40%
32) Benzene-d6	5.32	84	136906	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.60%
36) 1,2-Dichloropropane-d6	6.31	67	44698	4.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.00%
41) Toluene-d8	7.54	98	130517	4.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.40%
43) trans-1,3-Dichloropropene-	7.83	79	17194	3.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.00%
46) 2-Hexanone-d5	8.29	63	95793	47.60	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.20%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	38042	4.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	46557	4.30	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	43870	4.415 ug/L	97
3) Chloromethane	1.32	50	47415	5.061 ug/L	97
5) Vinyl chloride	1.40	62	46342	4.722 ug/L	100
6) Bromomethane	1.62	94	24744	5.057 ug/L	91
8) Chloroethane	1.69	64	28485	4.979 ug/L	97
9) Trichlorofluoromethane	1.87	101	65063	5.002 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	38371	5.250 ug/L #	86
12) 1,1-Dichloroethene	2.27	96	32892	5.083 ug/L	98
13) Acetone	2.31	43	113242	57.111 ug/L	97
14) Carbon disulfide	2.46	76	78599	4.738 ug/L	98
15) Methyl Acetate	2.60	43	26510	5.478 ug/L	97
16) Methylene chloride	2.68	84	41389	4.808 ug/L	98
17) Methyl tert-butyl Ether	2.98	73	117871	5.201 ug/L	98
18) trans-1,2-Dichloroethene	2.96	96	35061	5.214 ug/L	95
19) 1,1-Dichloroethane	3.42	63	75762	4.615 ug/L	98
21) 2-Butanone	4.25	43	168745	59.116 ug/L	98
22) cis-1,2-Dichloroethene	4.20	96	40043	4.452 ug/L	100

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Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Sep 18 18:16:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	17665	5.328	ug/L	92
25) Chloroform	4.65	83	74321	4.048	ug/L	94
27) 1,2-Dichloroethane	5.38	62	49221	4.659	ug/L	97
29) 1,1,1-Trichloroethane	4.88	97	58400	4.451	ug/L	99
30) Cyclohexane	4.96	56	61851	4.484	ug/L	99
31) Carbon tetrachloride	5.10	117	46874	4.390	ug/L	95
33) Benzene	5.36	78	152263	4.525	ug/L	100
34) Trichloroethene	6.16	95	39198	4.673	ug/L	96
35) Methylcyclohexane	6.39	83	59594	4.399	ug/L	99
37) 1,2-Dichloropropane	6.41	63	45683	4.397	ug/L #	98
38) Bromodichloromethane	6.73	83	54521	4.385	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	66561	4.550	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	420341	53.678	ug/L	97
42) Toluene	7.61	91	167293	4.600	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	51946	4.377	ug/L	99
45) 1,1,2-Trichloroethane	8.04	97	30953	4.684	ug/L	97
47) Tetrachloroethene	8.21	164	28179	5.541	ug/L	94
48) 2-Hexanone	8.34	43	297297	56.490	ug/L	95
49) Dibromochloromethane	8.46	129	36062	4.653	ug/L	100
50) 1,2-Dibromoethane	8.57	107	28909	4.798	ug/L	100
51) Chlorobenzene	9.10	112	109068	4.785	ug/L	98
52) Ethylbenzene	9.23	91	193000	4.591	ug/L	97
53) m,p-Xylene	9.35	106	69897	4.688	ug/L	95
54) o-Xylene	9.76	106	69782	4.659	ug/L	93
55) Styrene	9.77	104	119154	4.789	ug/L	91
56) Isopropylbenzene	10.14	105	191530	4.603	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	46243	4.740	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	32975	4.858	ug/L	99
61) Bromoform	9.94	173	20178	4.862	ug/L #	97
62) 1,3-Dichlorobenzene	11.40	146	88443	4.794	ug/L	93
63) 1,4-Dichlorobenzene	11.49	146	88861	4.825	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	86337	4.782	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	7114	4.351	ug/L #	78
67) 1,3,5-Trichlorobenzene	12.86	180	65863	5.462	ug/L	96
68) 1,2,4-trichlorobenzene	13.49	180	54570	5.676	ug/L	98
69) Naphthalene	13.72	128	113259	4.837	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	51012	5.664	ug/L	98

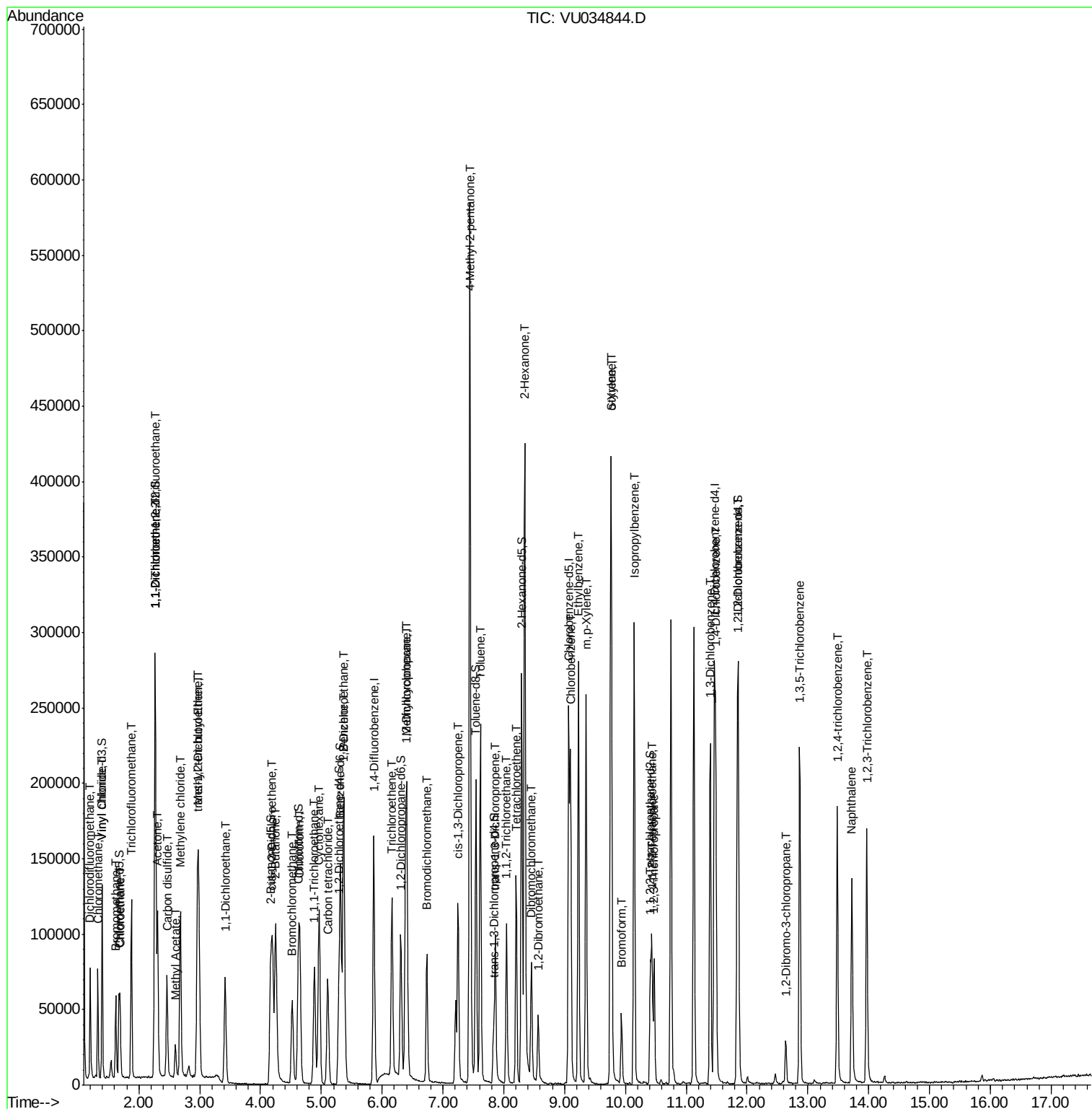
(#) = qualifier out of range (m) = manual integration (+) = signals summed

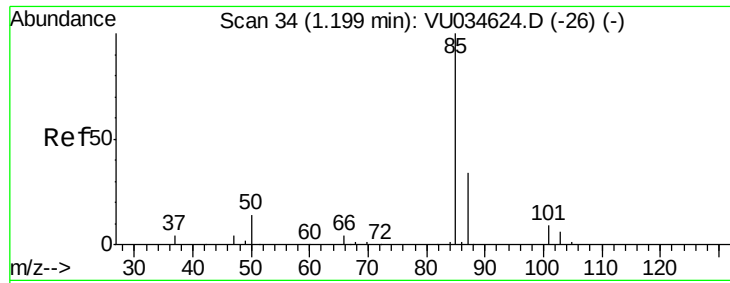
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Acq On       : 26 Sep 2019   15:41
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Instrument :
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ClientSampleId :
VSTD00522

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#2

Dichlorodifluoromethane

Concen: 4.415 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

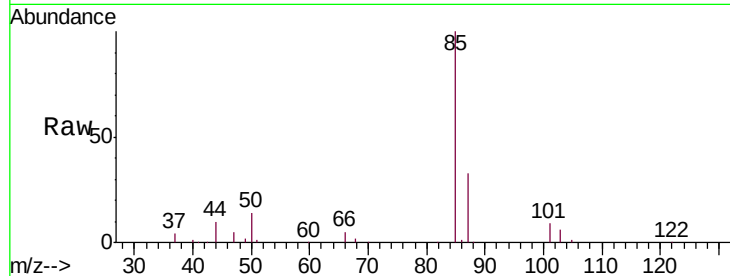
VSTD00522

Tgt Ion: 85 Resp: 43870

Ion Ratio Lower Upper

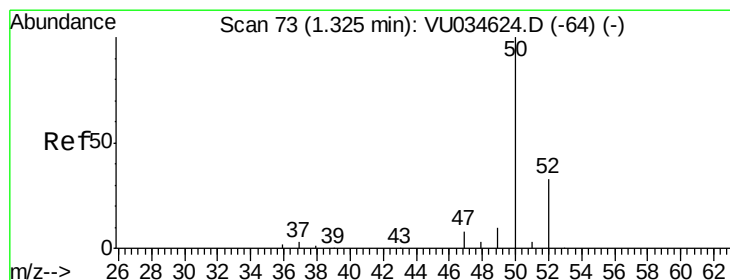
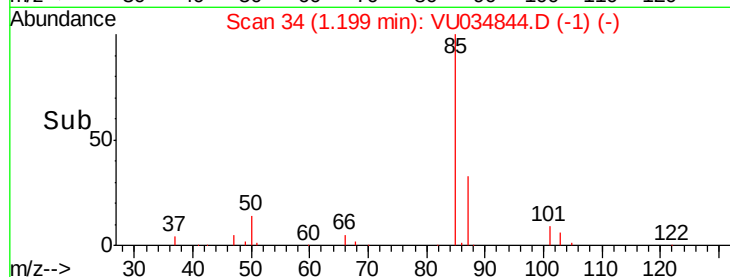
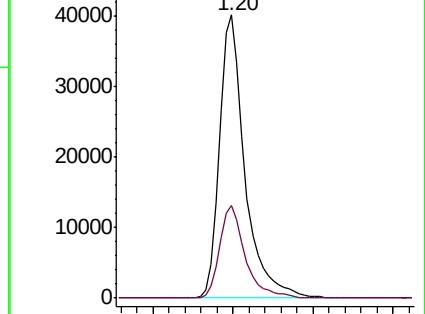
85 100

87 32.8 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU034624.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034624.D (-26) (-)



#3

Chloromethane

Concen: 5.061 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034844.D

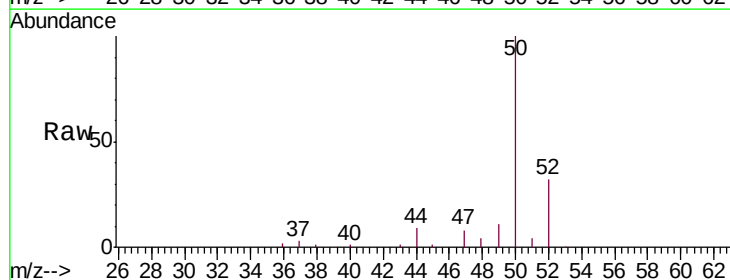
Acq: 26 Sep 2019 15:41

Tgt Ion: 50 Resp: 47415

Ion Ratio Lower Upper

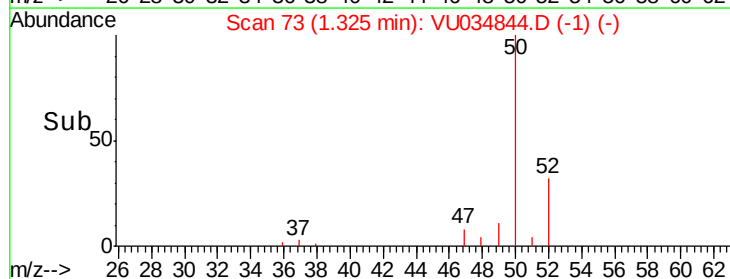
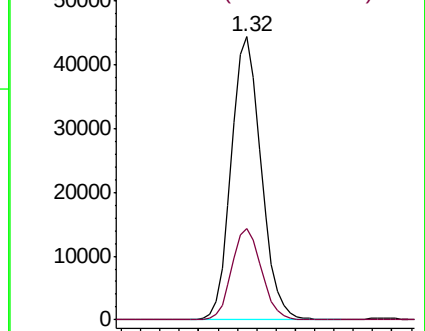
50 100

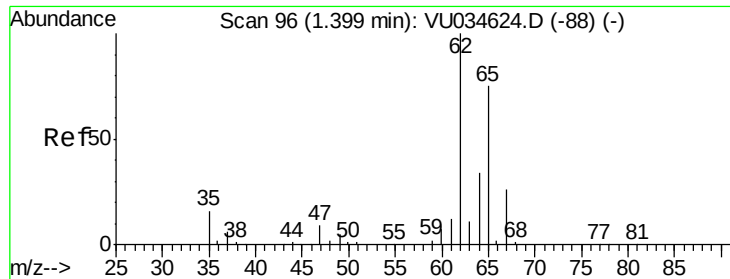
52 32.2 23.9 44.3



Abundance Ion 50.05 (49.75 to 50.75): VU034624.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034624.D (-64) (-)





#5

Vinyl chloride

Concen: 4.722 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

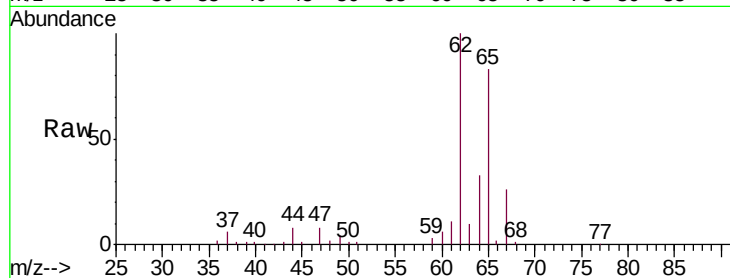
VSTD00522

Tgt Ion: 62 Resp: 46342

Ion Ratio Lower Upper

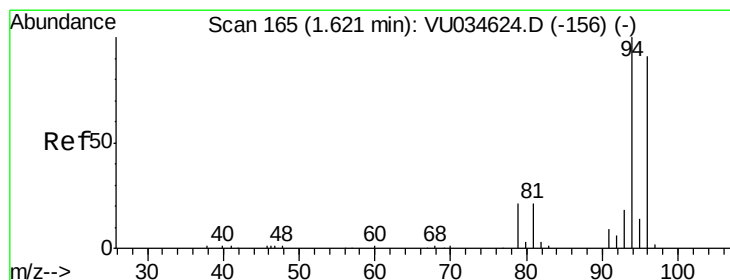
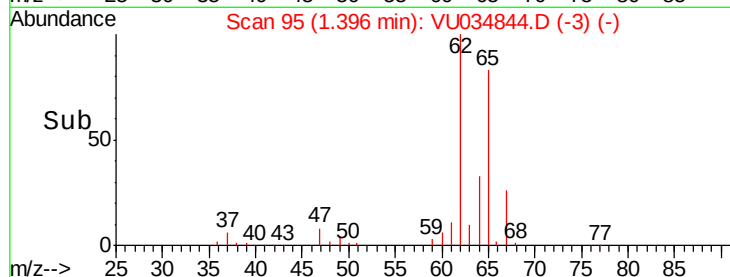
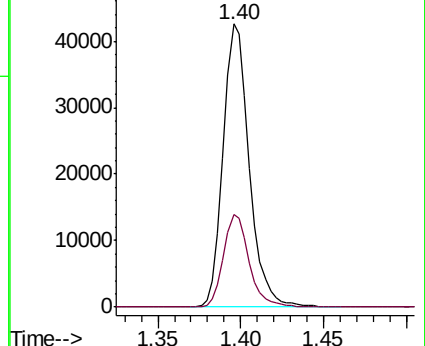
62 100

64 32.5 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU034844.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU034844.D (-88) (-)



#6

Bromomethane

Concen: 5.057 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034844.D

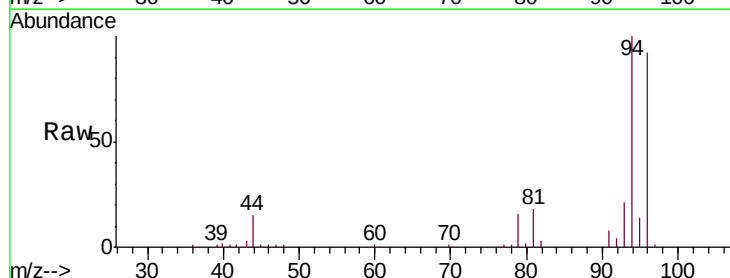
Acq: 26 Sep 2019 15:41

Tgt Ion: 94 Resp: 24744

Ion Ratio Lower Upper

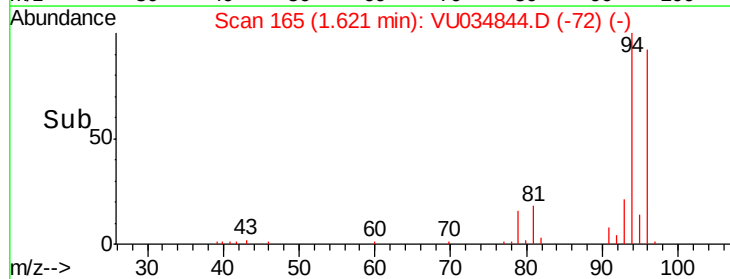
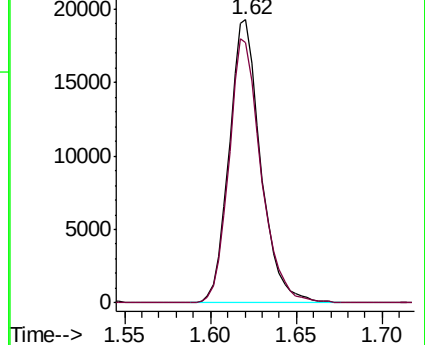
94 100

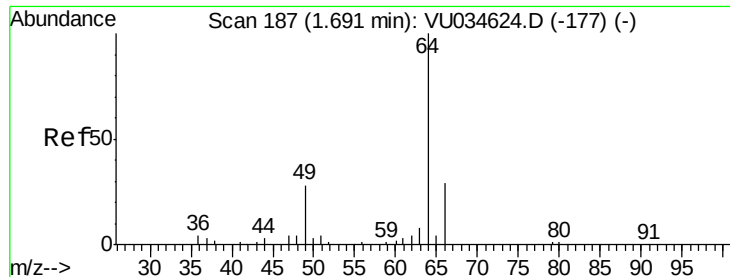
96 91.9 70.4 130.8



Abundance Ion 94.00 (93.70 to 94.70): VU034844.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU034844.D (-156) (-)





#8

Chloroethane

Concen: 4.979 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

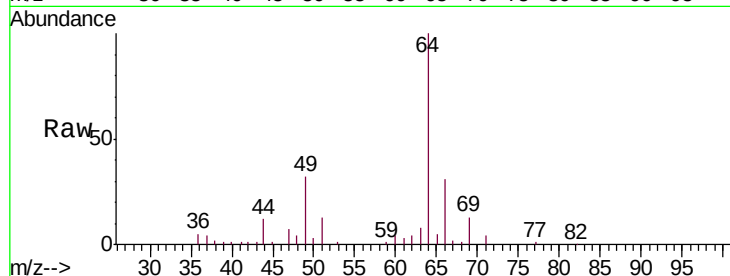
VSTD00522

Tgt Ion: 64 Resp: 28485

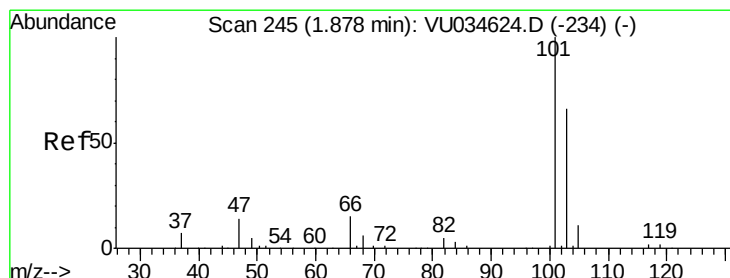
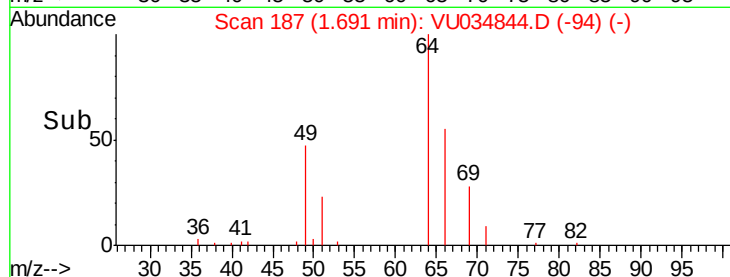
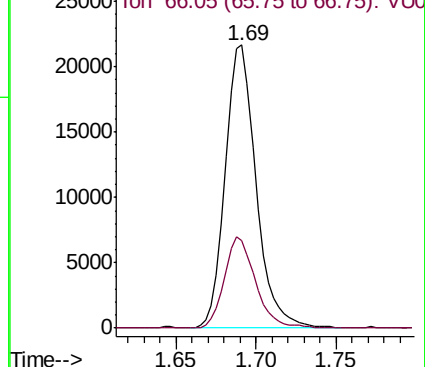
Ion Ratio Lower Upper

64 100

66 30.9 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034624.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 5.002 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034844.D

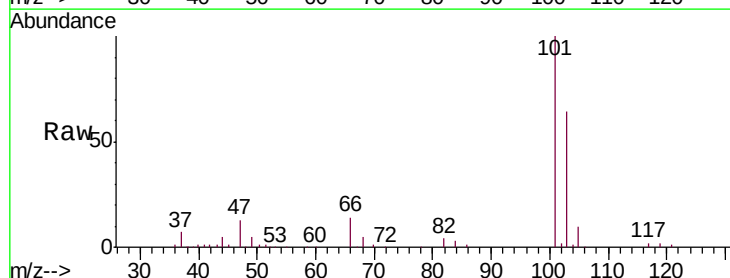
Acq: 26 Sep 2019 15:41

Tgt Ion: 101 Resp: 65063

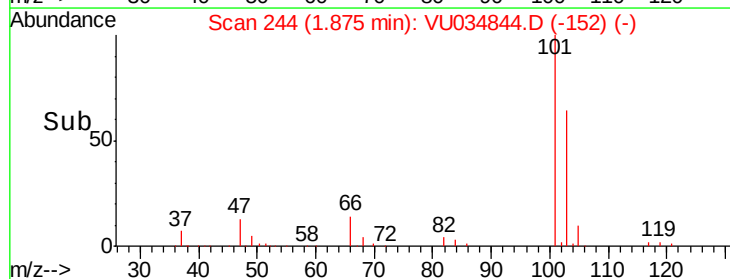
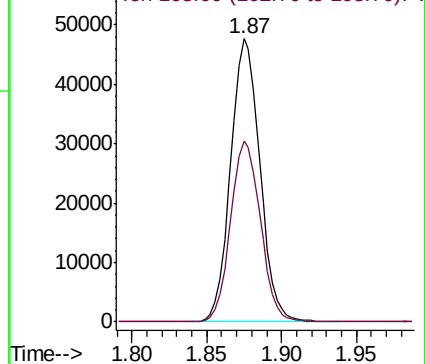
Ion Ratio Lower Upper

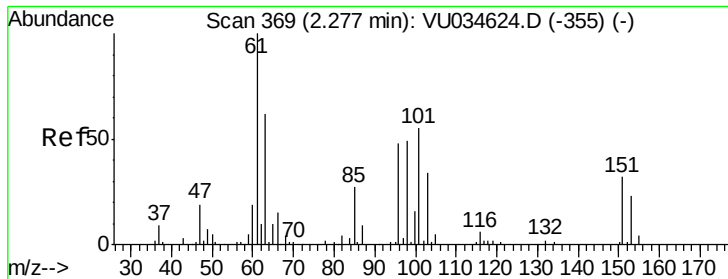
101 100

103 65.0 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU034624.D (-234) (-)





#10

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

Concen: 5.250 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

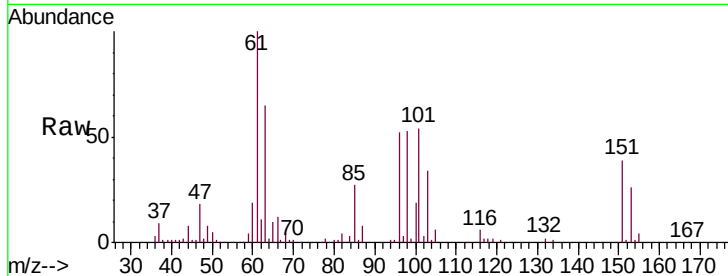
Tgt Ion:101 Resp: 38371

Ion Ratio Lower Upper

101 100

85 47.6 41.9 62.9

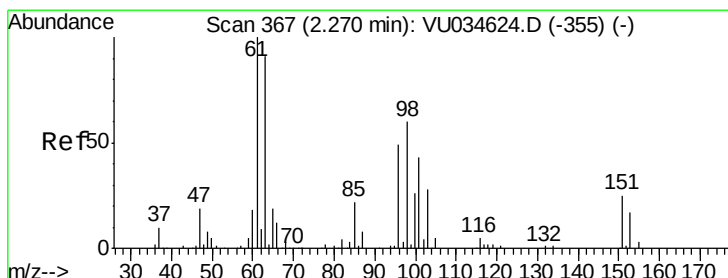
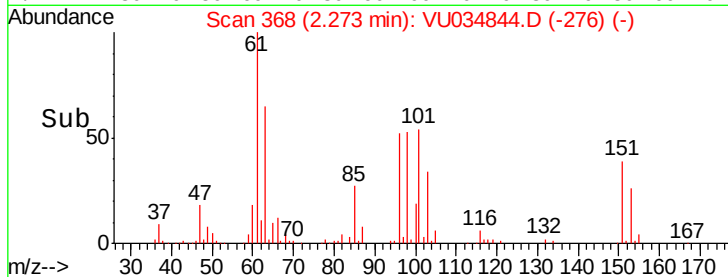
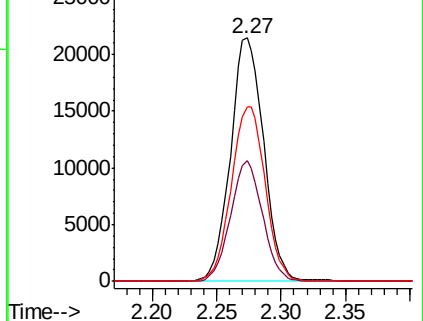
151 72.8 46.4 69.6#



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: 5.083 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

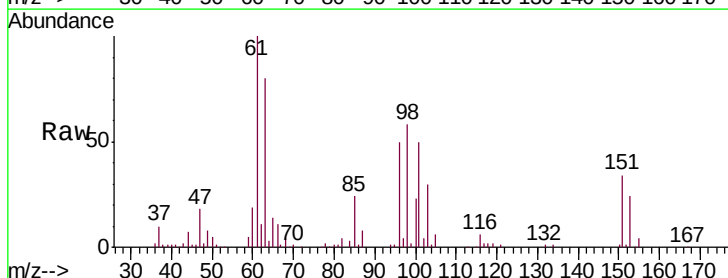
Tgt Ion: 96 Resp: 32892

Ion Ratio Lower Upper

96 100

61 201.9 144.4 268.2

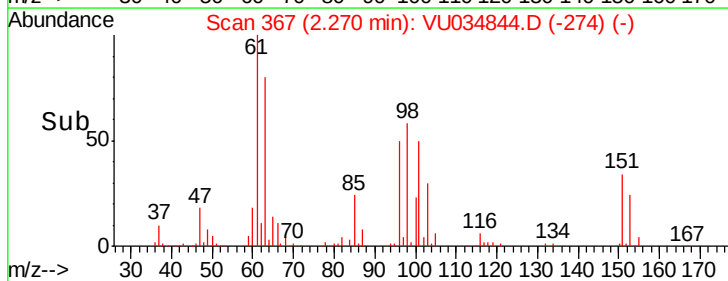
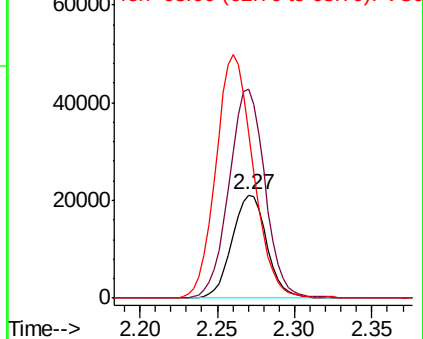
63 160.6 111.5 207.1

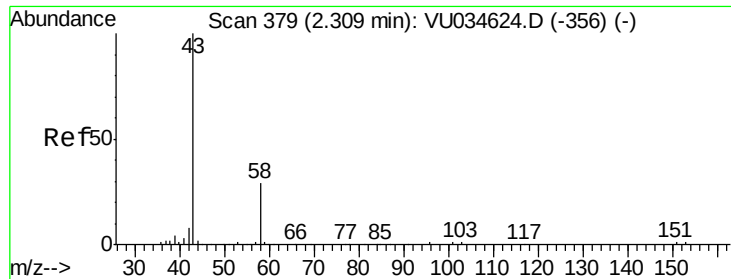


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 57.111 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

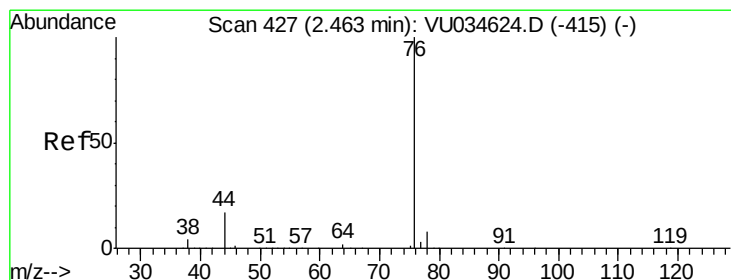
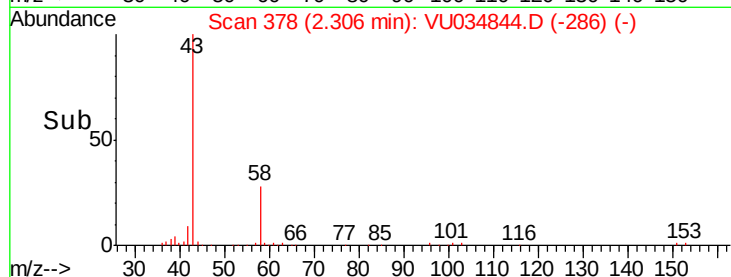
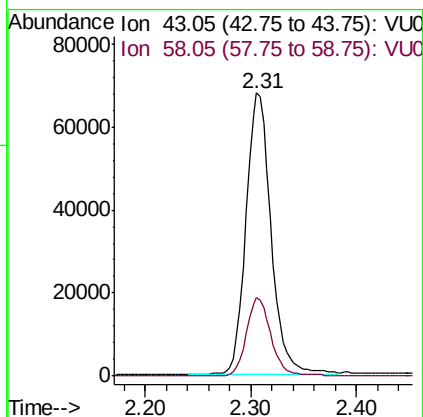
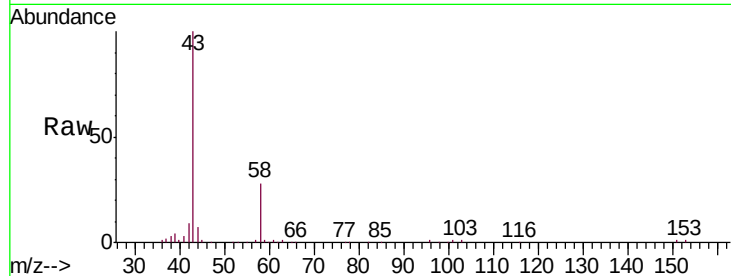
VSTD00522

Tgt Ion: 43 Resp: 113242

Ion Ratio Lower Upper

43 100

58 27.1 0.0 57.8



#14

Carbon disulfide

Concen: 4.738 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU034844.D

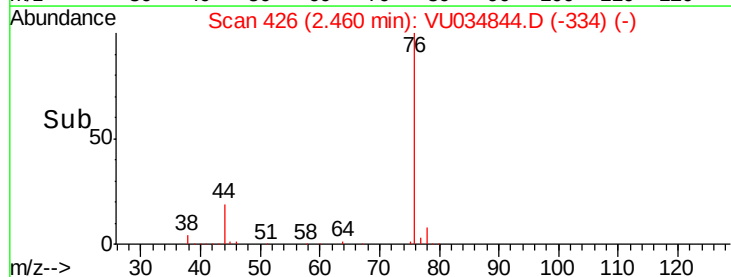
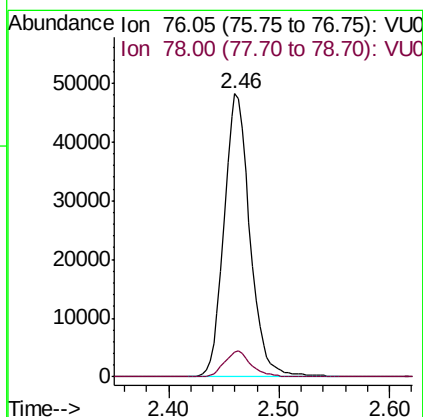
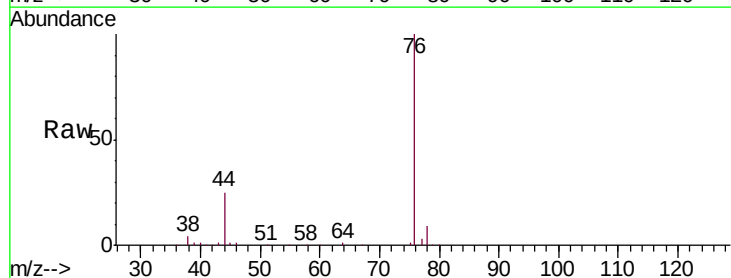
Acq: 26 Sep 2019 15:41

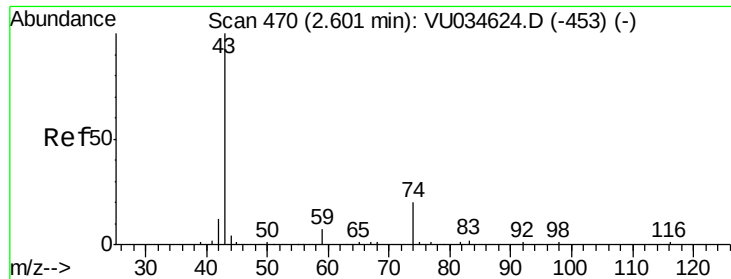
Tgt Ion: 76 Resp: 78599

Ion Ratio Lower Upper

76 100

78 8.7 7.7 11.5

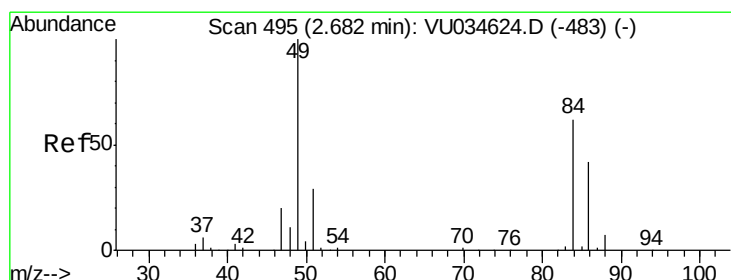
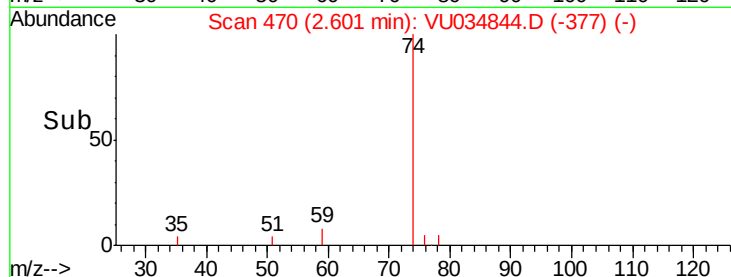
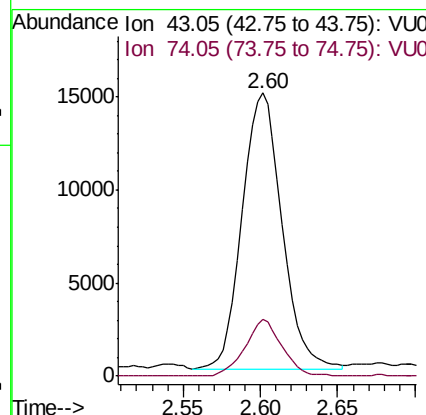
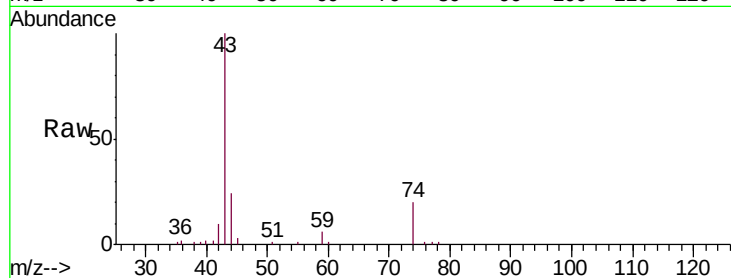




#15
Methyl Acetate
Concen: 5.478 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

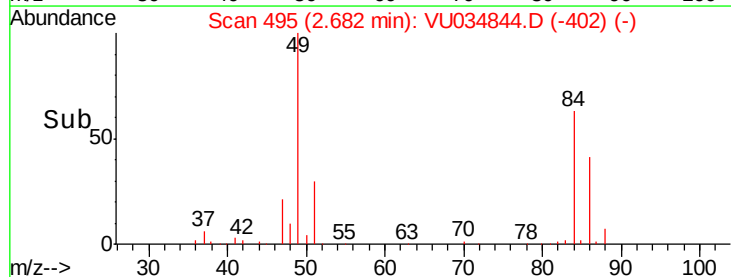
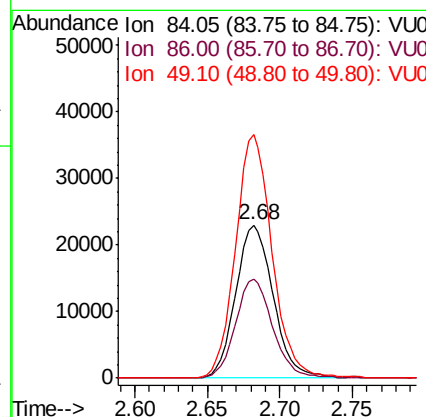
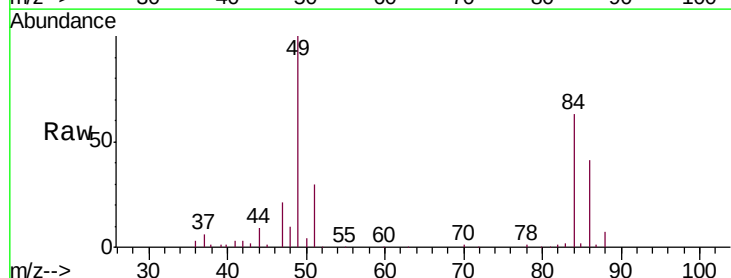
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

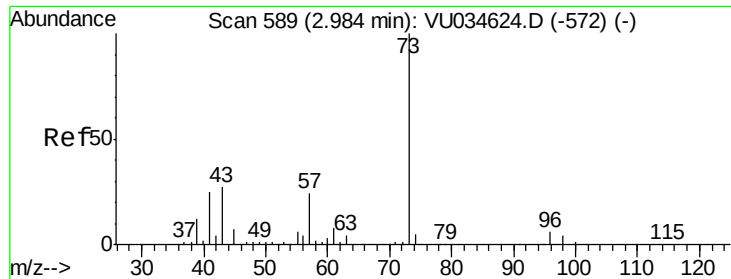
Tgt Ion: 43 Resp: 26510
Ion Ratio Lower Upper
43 100
74 19.0 14.2 21.2



#16
Methylene chloride
Concen: 4.808 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion: 84 Resp: 41389
Ion Ratio Lower Upper
84 100
86 64.9 43.0 80.0
49 159.1 110.9 205.9

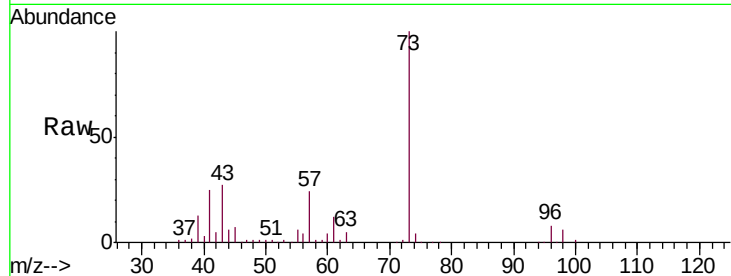




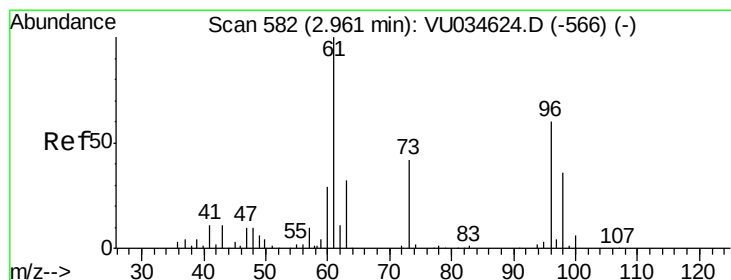
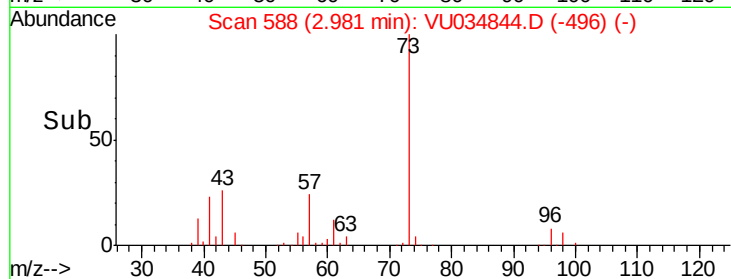
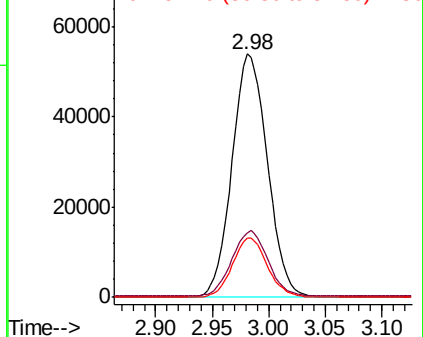
#17
Methyl tert-butyl Ether
Concen: 5.201 ug/L
RT: 2.98 min Scan# 588
Delta R.T. -0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tgt Ion: 73 Resp: 117871
Ion Ratio Lower Upper
73 100
43 26.9 20.3 30.5
57 24.2 18.9 28.3

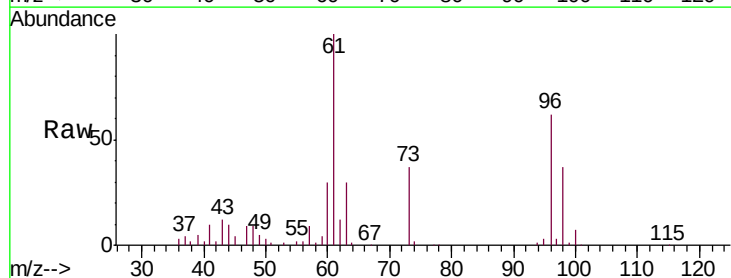


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

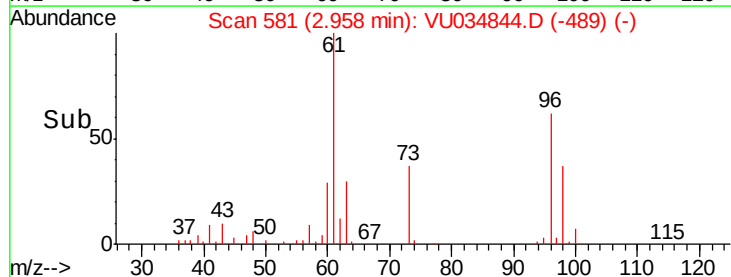
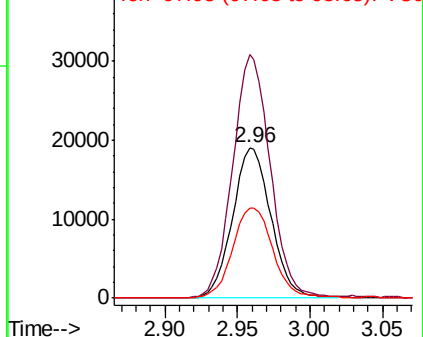


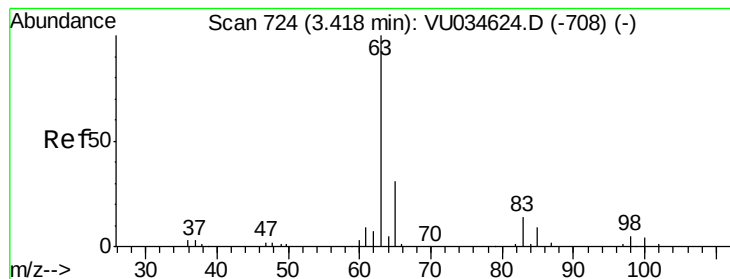
#18
trans-1,2-Dichloroethene
Concen: 5.214 ug/L
RT: 2.96 min Scan# 581
Delta R.T. -0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion: 96 Resp: 35061
Ion Ratio Lower Upper
96 100
61 162.0 118.2 219.6
98 60.0 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.615 ug/L

RT: 3.42 min Scan# 724

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

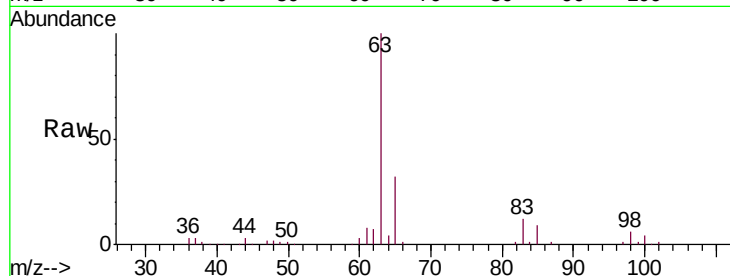
Tgt Ion: 63 Resp: 75762

Ion Ratio Lower Upper

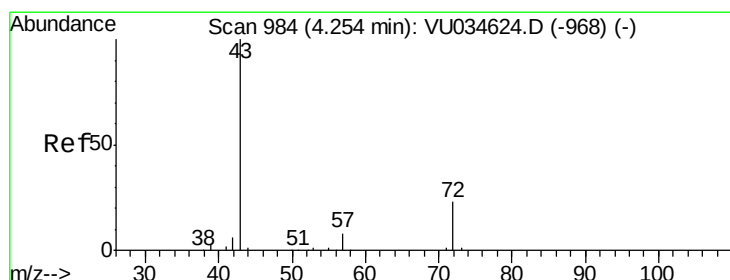
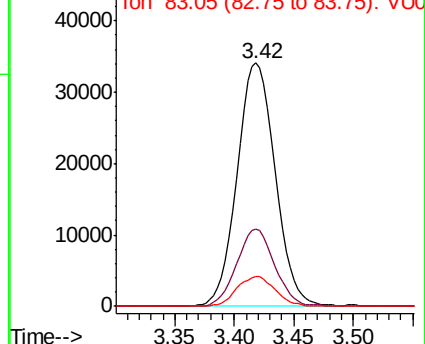
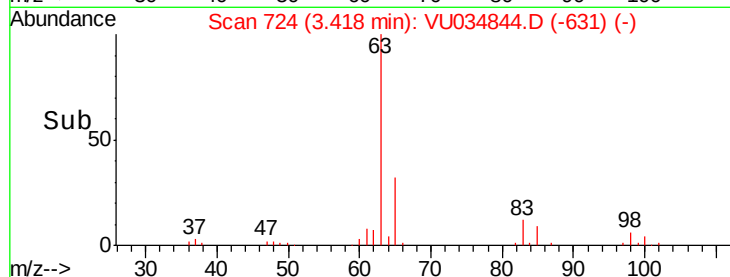
63 100

65 31.9 21.9 40.7

83 12.5 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU034844.D (-631) (-)



#21

2-Butanone

Concen: 59.116 ug/L

RT: 4.25 min Scan# 982

Delta R.T. -0.01 min

Lab File: VU034844.D

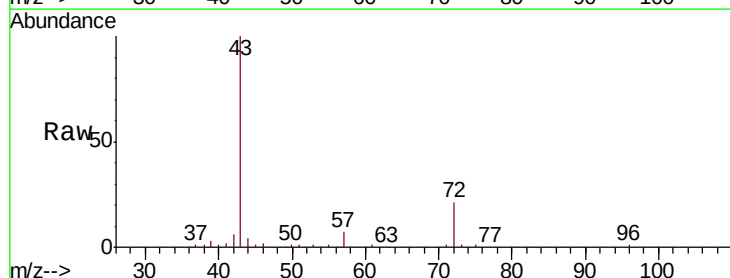
Acq: 26 Sep 2019 15:41

Tgt Ion: 43 Resp: 168745

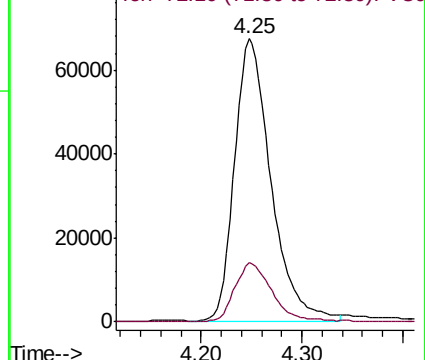
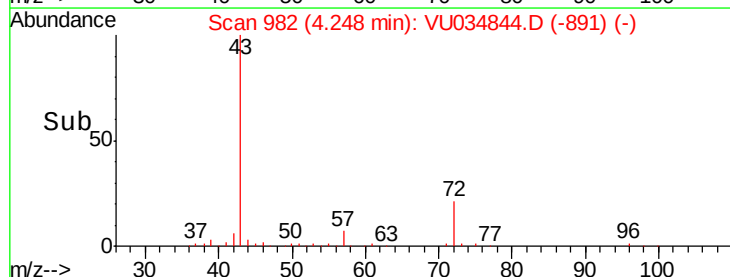
Ion Ratio Lower Upper

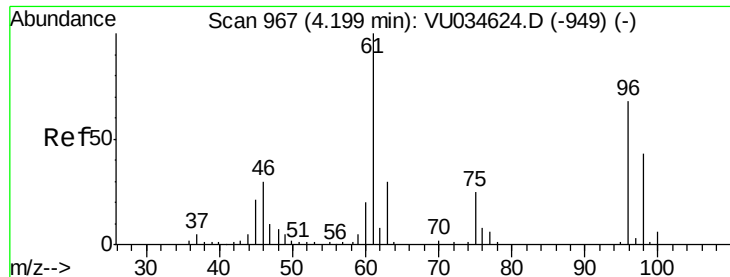
43 100

72 20.7 10.8 32.3



Abundance Ion 43.05 (42.75 to 43.75): VU034844.D (-891) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.452 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

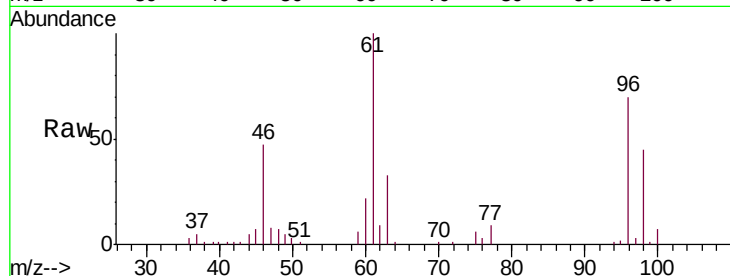
Tgt Ion: 96 Resp: 40043

Ion Ratio Lower Upper

96 100

61 143.4 100.0 185.8

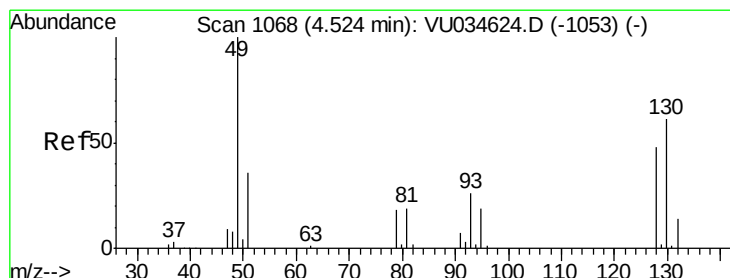
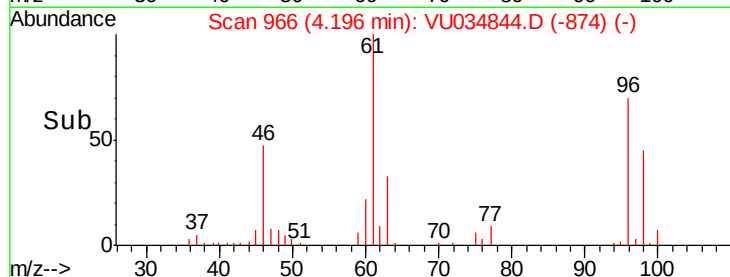
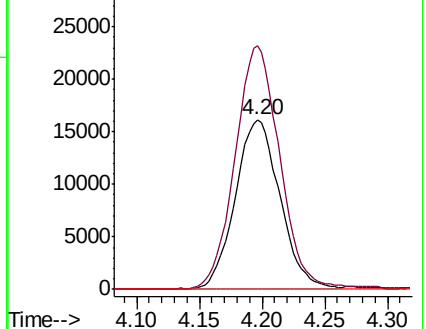
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU034844.D (-966) (-)

Ion 61.05 (60.75 to 61.75): VU034844.D (-966) (-)

Ion 68.15 (67.85 to 68.85): VU034844.D (-966) (-)



#23

Bromochloromethane

Concen: 5.328 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Tgt Ion: 128 Resp: 17665

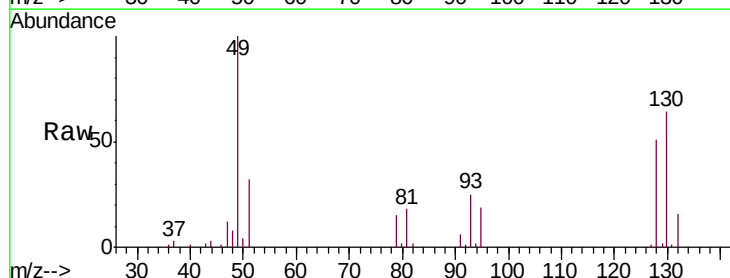
Ion Ratio Lower Upper

128 100

49 197.2 149.9 278.3

130 125.8 91.3 169.6

51 63.7 55.7 83.5

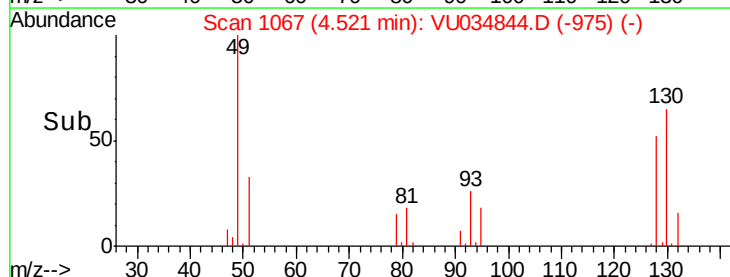
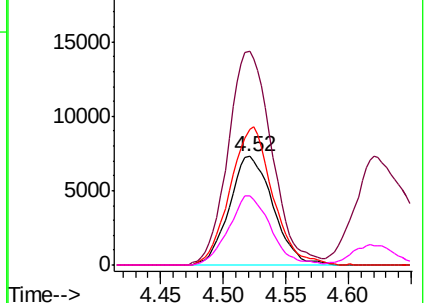


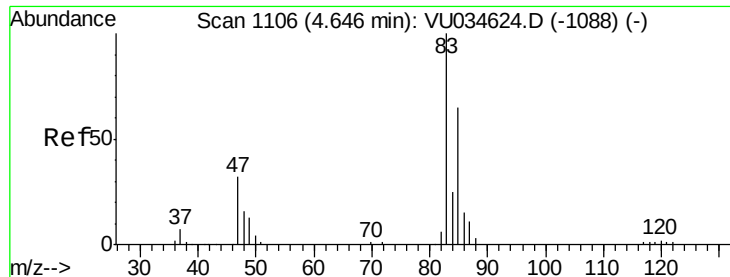
Abundance Ion 127.90 (127.60 to 128.60): VU034844.D (-1067) (-)

Ion 49.10 (48.80 to 49.80): VU034844.D (-1067) (-)

Ion 129.95 (129.65 to 130.65): VU034844.D (-1067) (-)

Ion 51.05 (50.75 to 51.75): VU034844.D (-1067) (-)

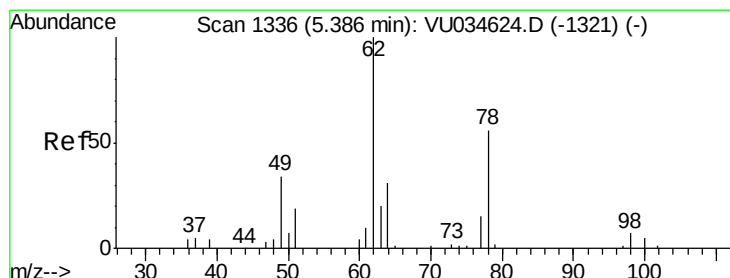
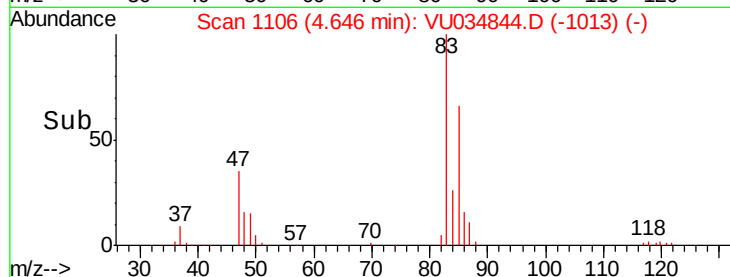
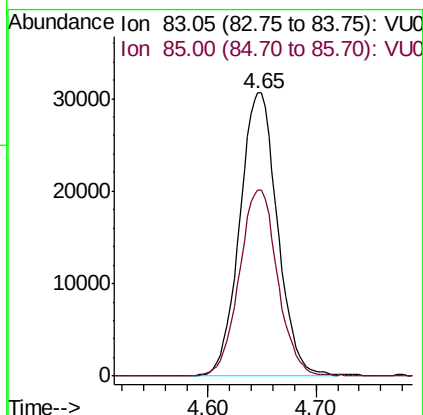
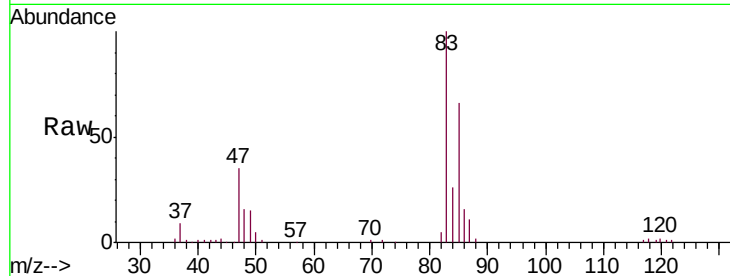




#25
Chloroform
Concen: 4.048 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

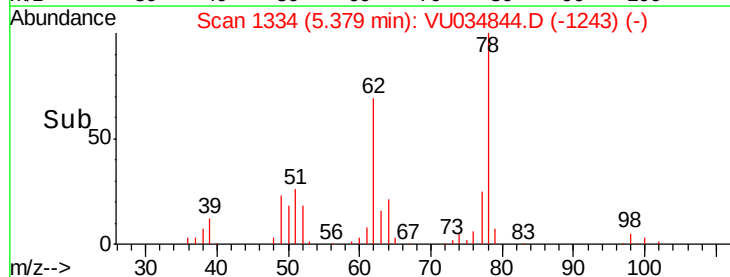
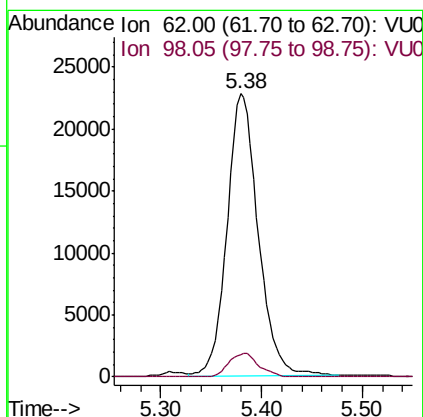
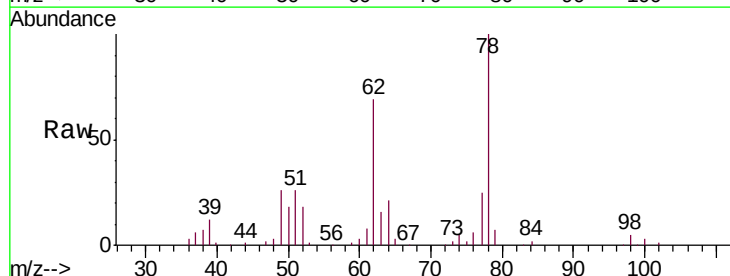
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

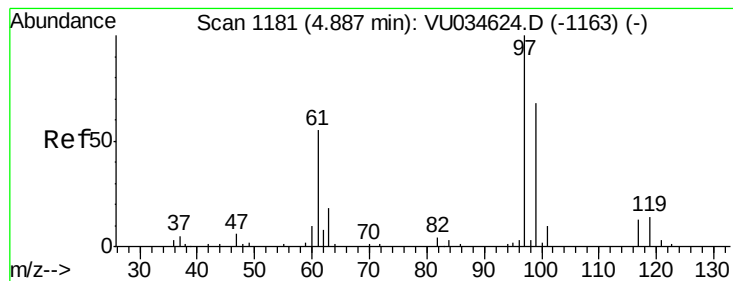
Tgt Ion: 83 Resp: 74321
Ion Ratio Lower Upper
83 100
85 65.8 42.8 79.4



#27
1,2-Dichloroethane
Concen: 4.659 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion: 62 Resp: 49221
Ion Ratio Lower Upper
62 100
98 7.9 7.0 10.6





#29

1,1,1-Trichloroethane

Concen: 4.451 ug/L

RT: 4.88 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

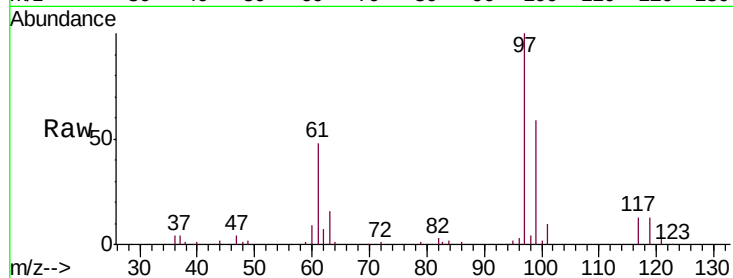
Tgt Ion: 97 Resp: 58400

Ion Ratio Lower Upper

97 100

99 61.6 50.0 75.0

61 50.8 39.8 59.6

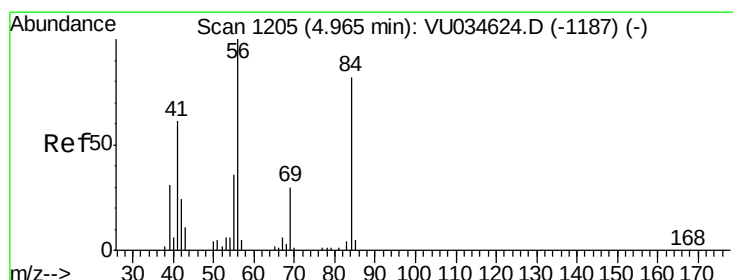
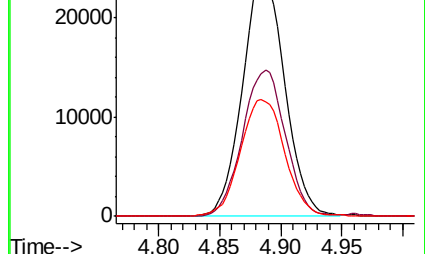
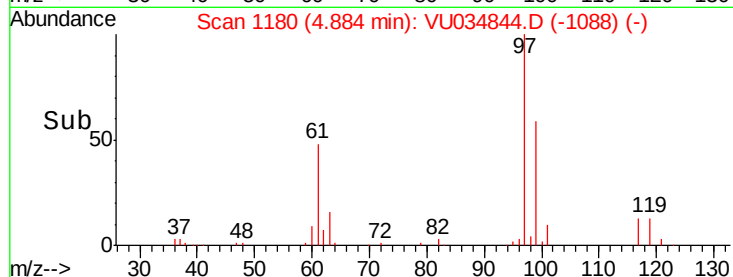


Abundance Ion 96.95 (96.65 to 97.65): VU034844.D (-1163) (-)

Ion 99.05 (98.75 to 99.75): VU034844.D (-1163) (-)

Ion 61.05 (60.75 to 61.75): VU034844.D (-1163) (-)

Time-->



#30

Cyclohexane

Concen: 4.484 ug/L

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

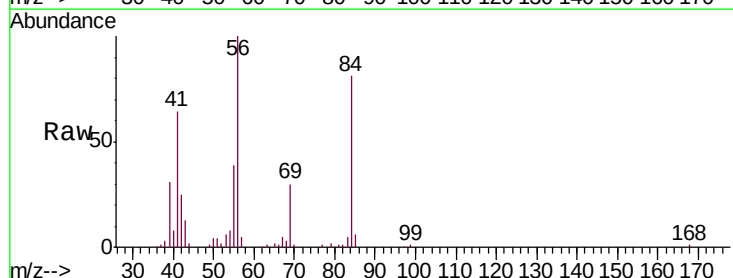
Tgt Ion: 56 Resp: 61851

Ion Ratio Lower Upper

56 100

69 28.5 21.4 32.2

84 79.7 64.2 96.2

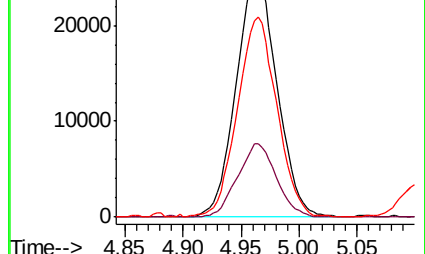
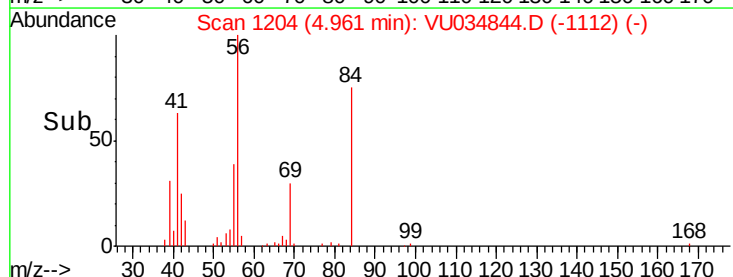


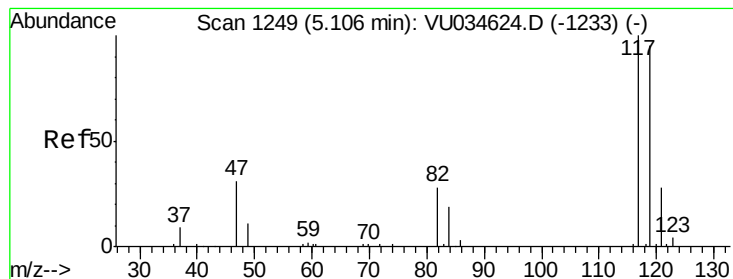
Abundance Ion 56.10 (55.80 to 56.80): VU034844.D (-1187) (-)

Ion 69.15 (68.85 to 69.85): VU034844.D (-1187) (-)

Ion 84.15 (83.85 to 84.85): VU034844.D (-1187) (-)

Time-->





#31

Carbon tetrachloride

Concen: 4.390 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

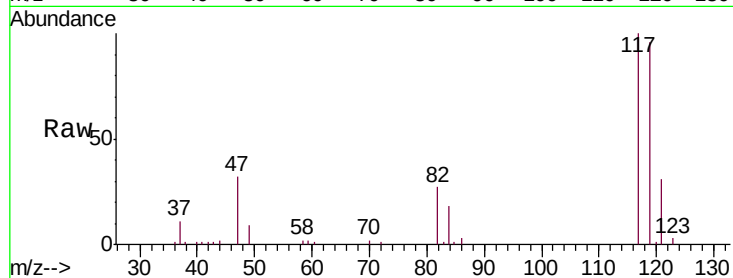
VSTD00522

Tgt Ion:117 Resp: 46874

Ion Ratio Lower Upper

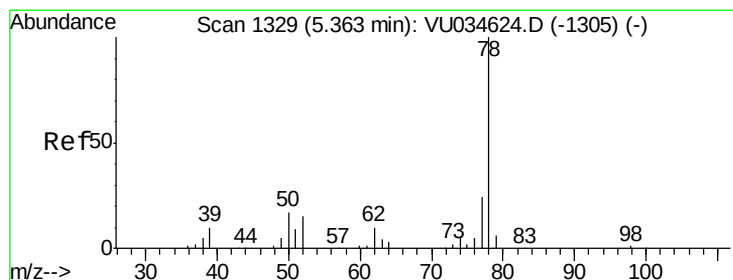
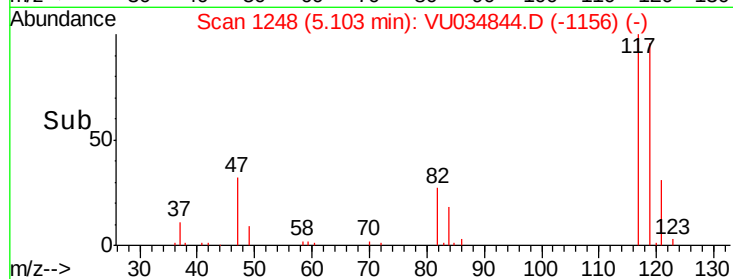
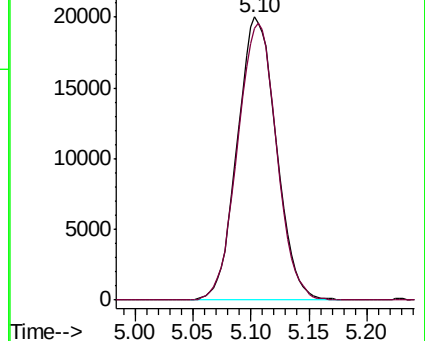
117 100

119 97.6 74.2 111.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.525 ug/L

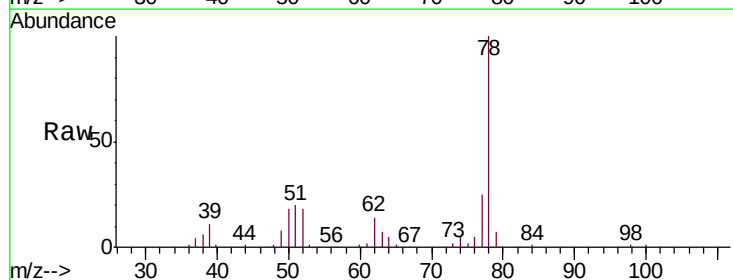
RT: 5.36 min Scan# 1329

Delta R.T. 0.00 min

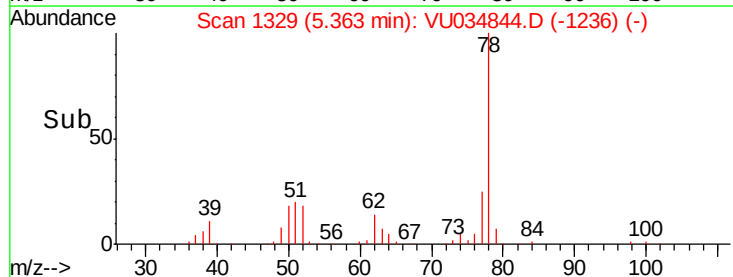
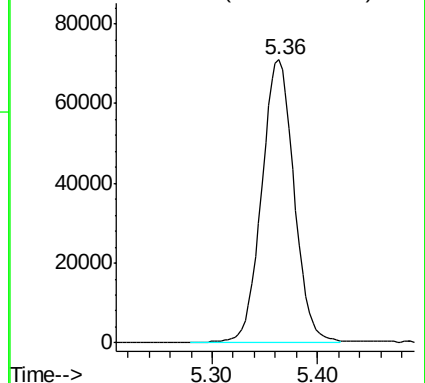
Lab File: VU034844.D

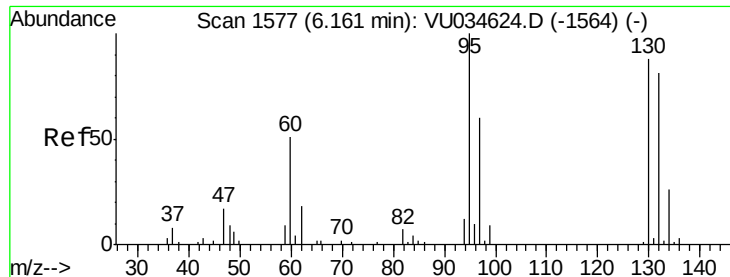
Acq: 26 Sep 2019 15:41

Tgt Ion: 78 Resp: 152263



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.673 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

Tgt Ion: 95 Resp: 39198

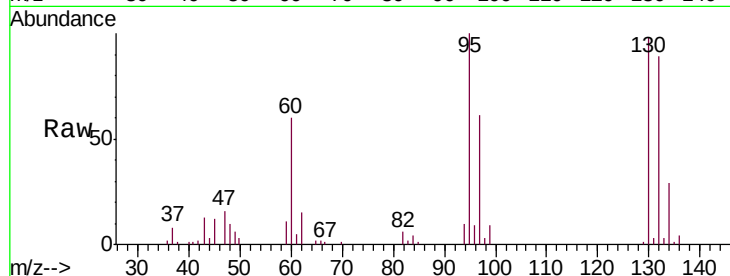
Ion Ratio Lower Upper

95 100

97 61.4 45.2 84.0

132 89.3 60.9 113.1

130 97.9 64.3 119.3

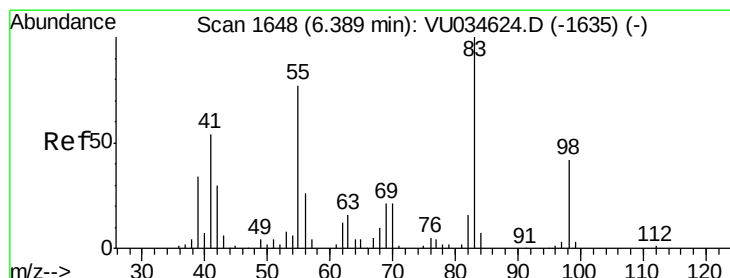
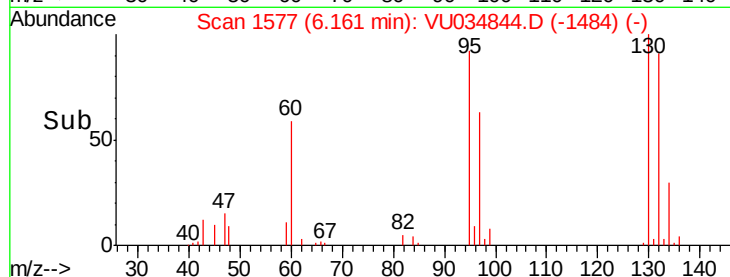
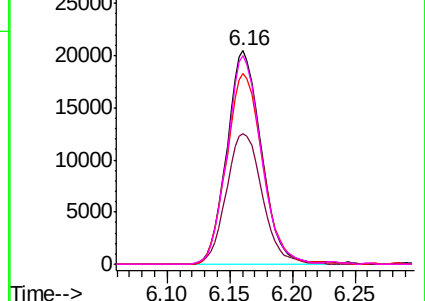


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.399 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

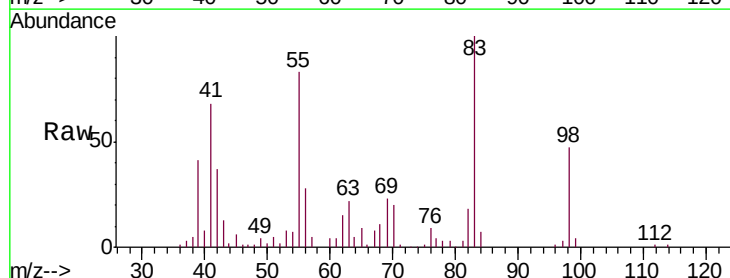
Tgt Ion: 83 Resp: 59594

Ion Ratio Lower Upper

83 100

55 82.1 66.8 100.2

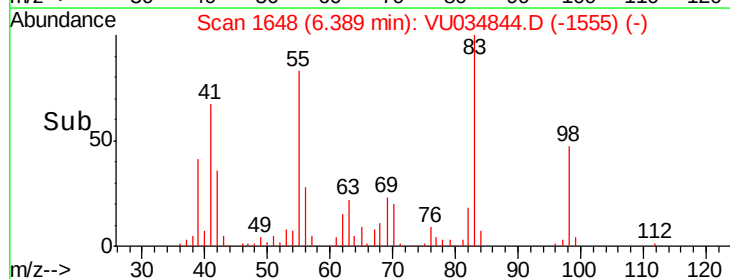
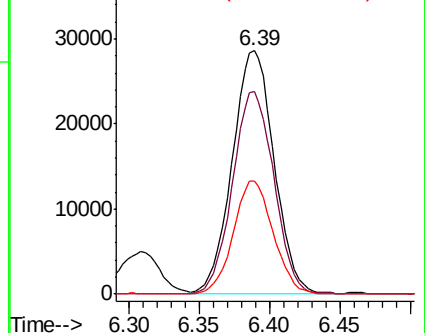
98 44.1 35.4 53.0

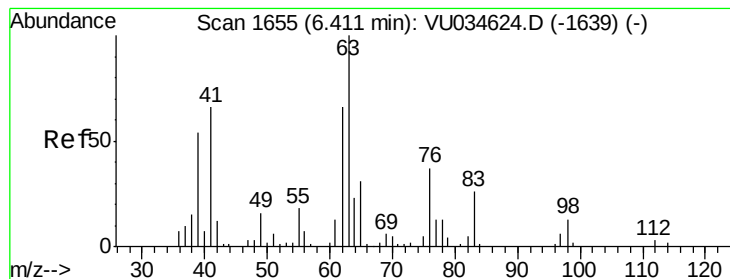


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.397 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

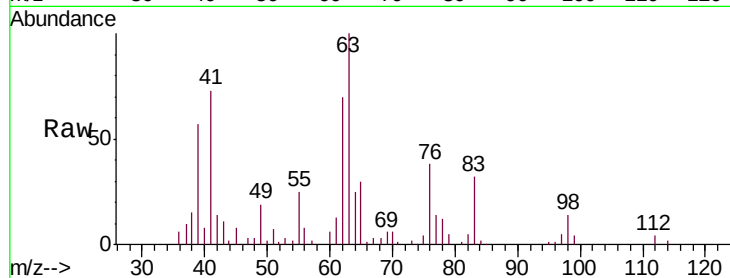
VSTD00522

Tgt Ion: 63 Resp: 45683

Ion Ratio Lower Upper

63 100

112 3.3 2.2 3.2#



Abundance Ion 63.10 (62.80 to 63.80): VU034844.D (-1639) (-)

Ion 112.10 (111.80 to 112.80): VU034844.D (-1639) (-)

6.41

25000

20000

15000

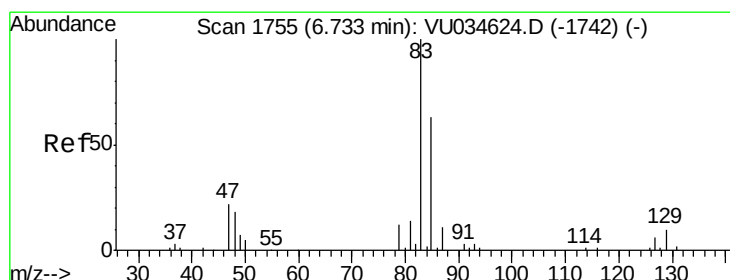
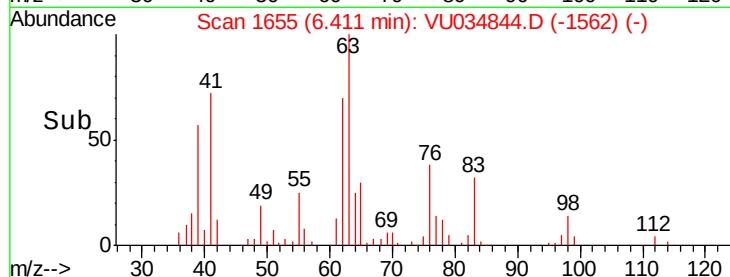
10000

5000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 4.385 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

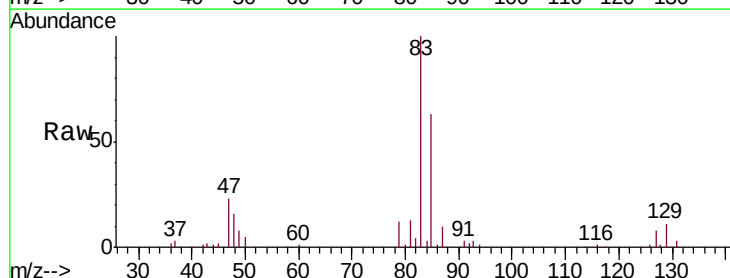
Tgt Ion: 83 Resp: 54521

Ion Ratio Lower Upper

83 100

85 62.5 43.4 80.6

127 7.7 6.2 9.2



Abundance Ion 82.95 (82.65 to 83.65): VU034844.D (-1662) (-)

Ion 85.00 (84.70 to 85.70): VU034844.D (-1662) (-)

Ion 126.90 (126.60 to 127.60): VU034844.D (-1662) (-)

6.73

30000

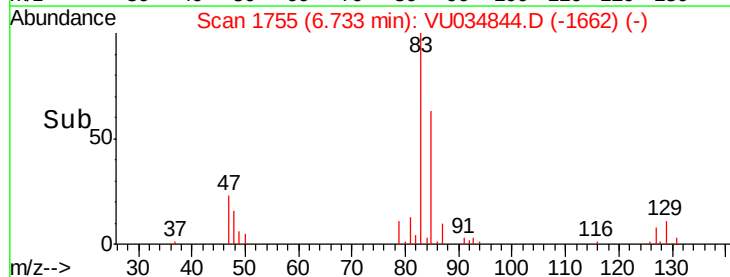
20000

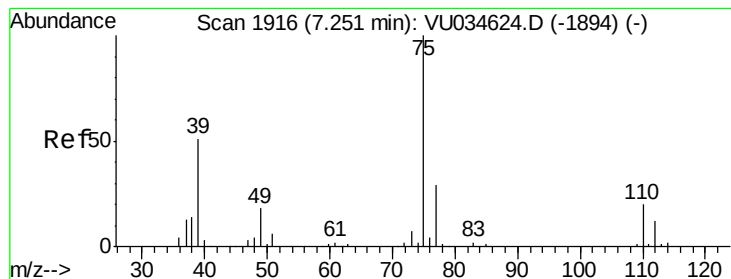
10000

0

6.65 6.70 6.75 6.80 6.85

Time-->



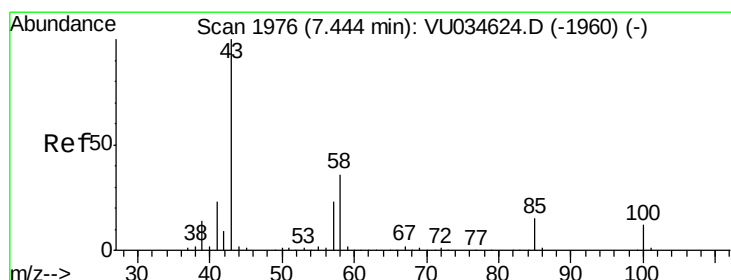
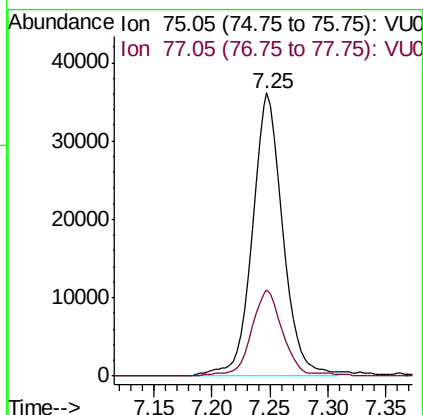
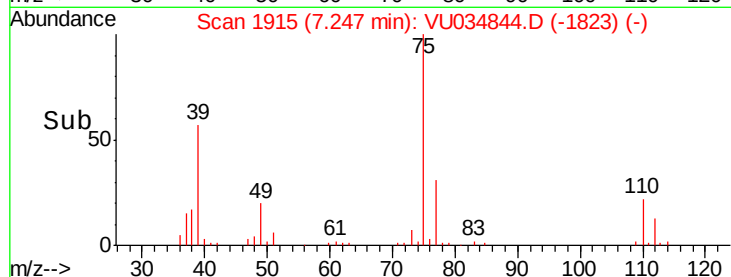
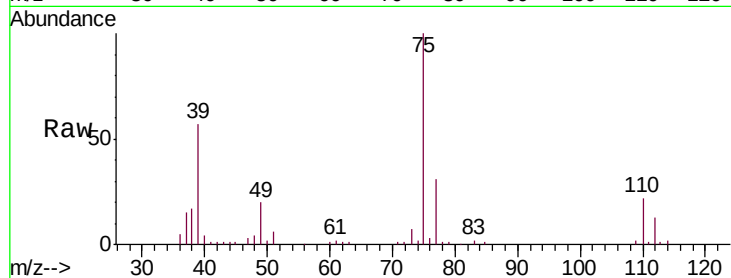


#39

cis-1,3-Dichloropropene
 Concen: 4.550 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

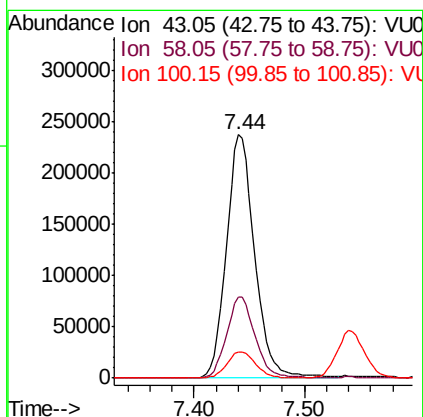
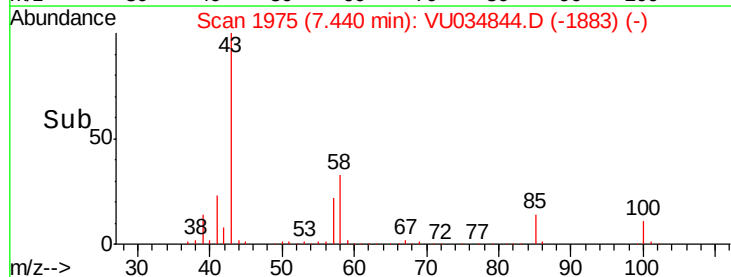
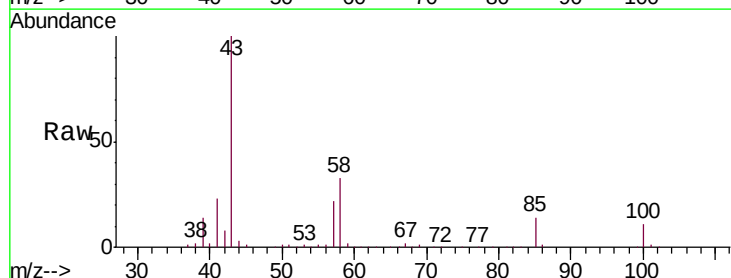
Tgt Ion: 75 Resp: 66561
 Ion Ratio Lower Upper
 75 100
 77 30.7 22.2 41.2

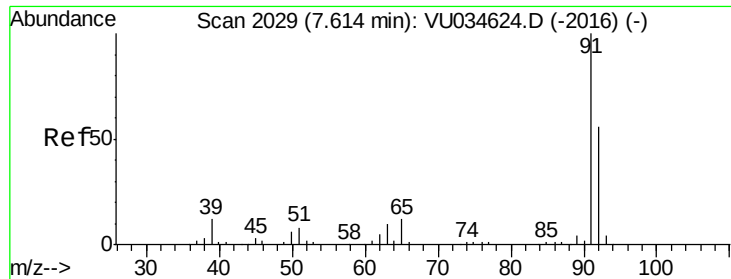


#40

4-Methyl-2-pentanone
 Concen: 53.678 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Tgt Ion: 43 Resp: 420341
 Ion Ratio Lower Upper
 43 100
 58 33.8 28.6 42.8
 100 11.1 8.9 13.3





#42

Toluene

Concen: 4.600 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

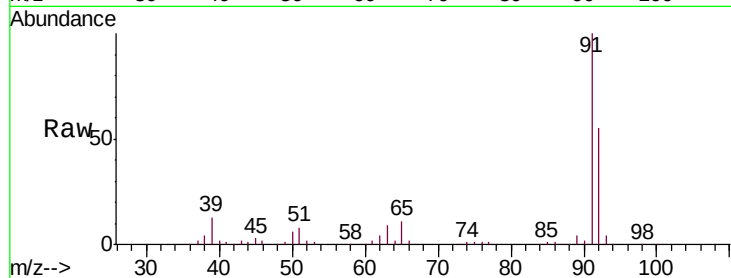
VSTD00522

Tgt Ion: 91 Resp: 167293

Ion Ratio Lower Upper

91 100

92 55.0 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034844.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU034844.D (-2016) (-)

7.61

100000

80000

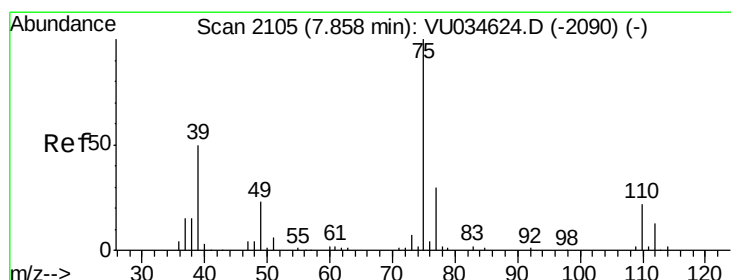
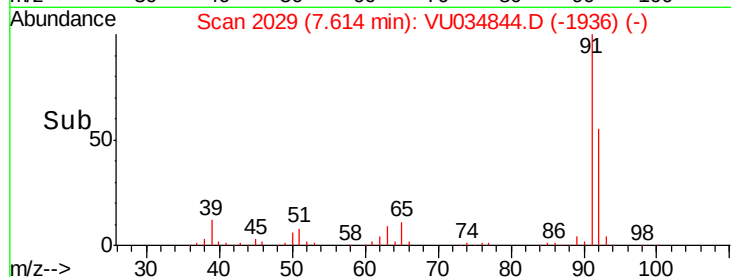
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.377 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU034844.D

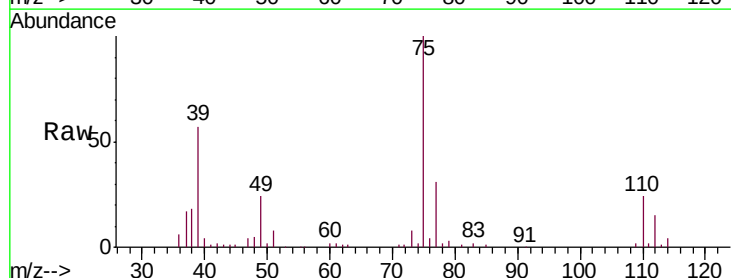
Acq: 26 Sep 2019 15:41

Tgt Ion: 75 Resp: 51946

Ion Ratio Lower Upper

75 100

77 30.9 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VU034844.D (-2102) (-)

Ion 77.05 (76.75 to 77.75): VU034844.D (-2102) (-)

7.86

30000

25000

20000

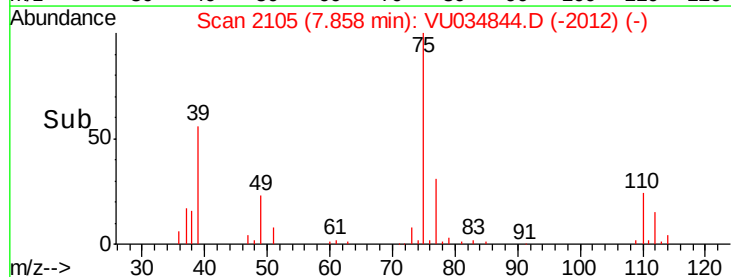
15000

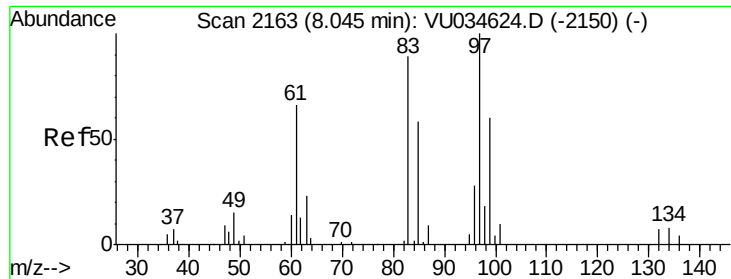
10000

5000

0

Time-->

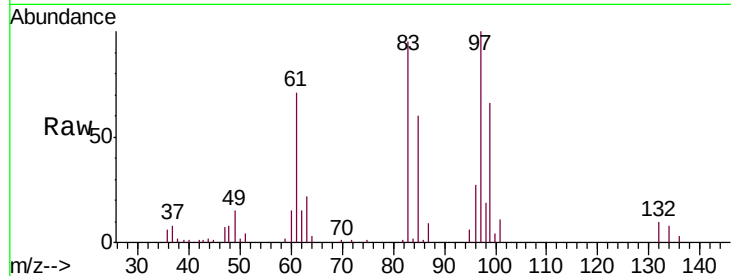




#45
 1,1,2-Trichloroethane
 Concen: 4.684 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tgt Ion:	97	Resp:	30953
Ion	Ratio	Lower	Upper
97	100		
99	65.7	42.5	78.9
83	94.6	65.9	122.5
85	60.0	43.5	80.9



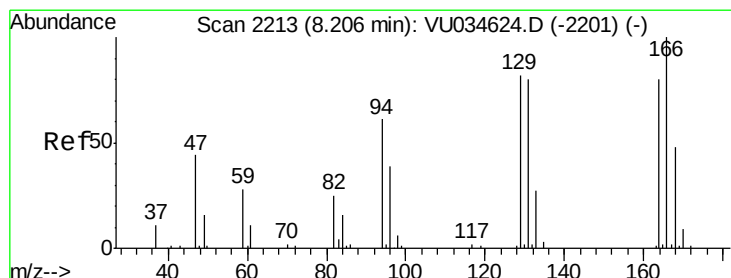
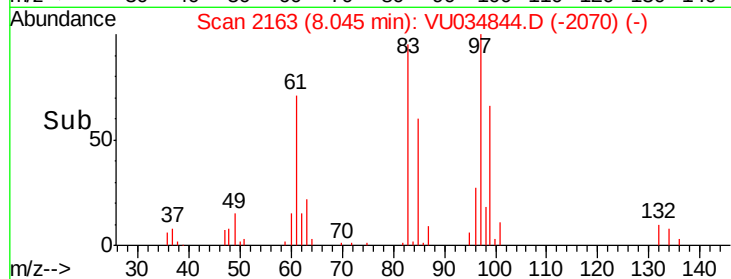
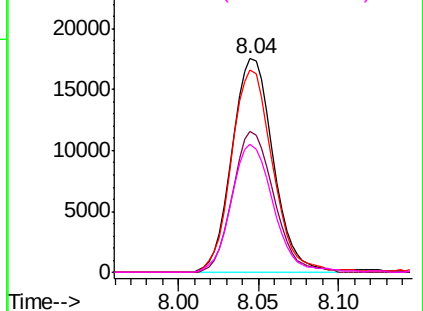
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

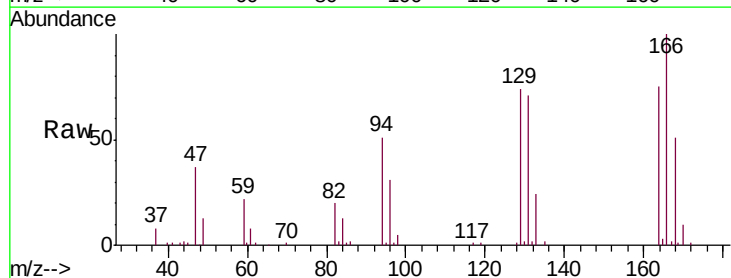
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.541 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Tgt Ion:	164	Resp:	28179
Ion	Ratio	Lower	Upper
164	100		
129	98.3	73.6	136.8
131	95.0	73.4	136.4
166	132.9	90.6	168.3



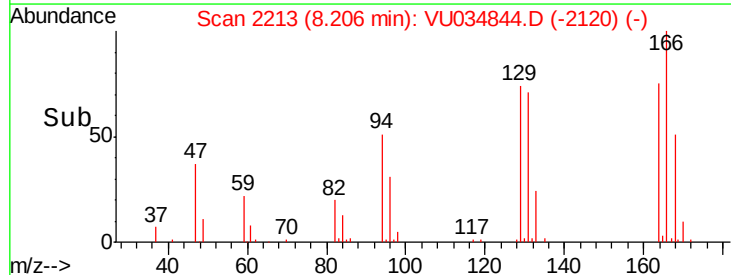
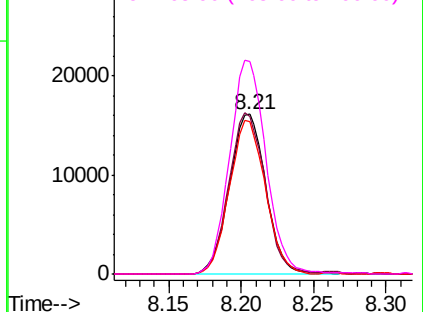
Abundance

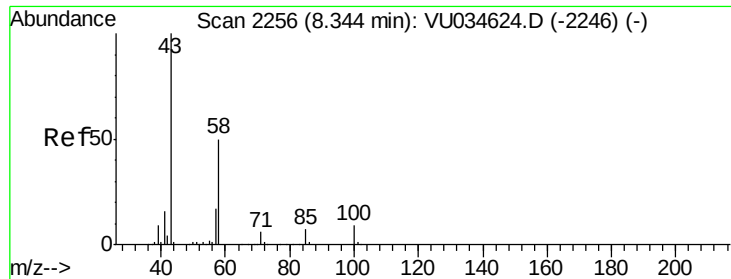
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

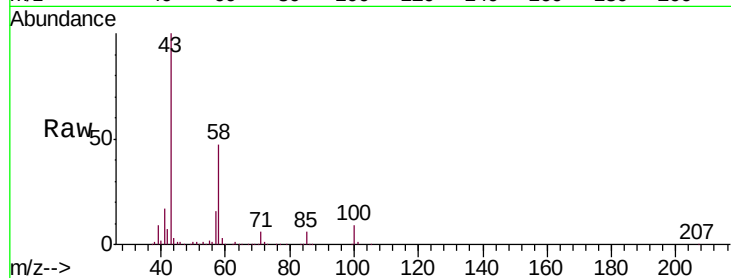




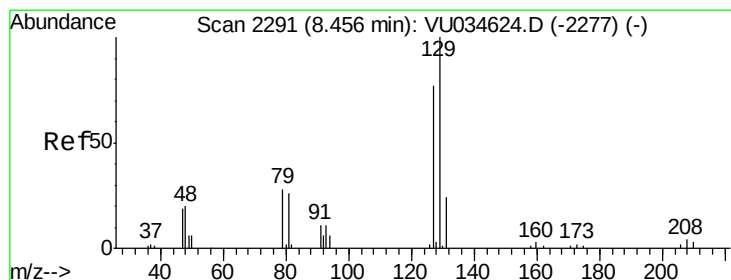
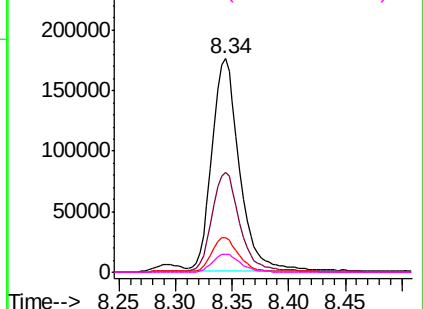
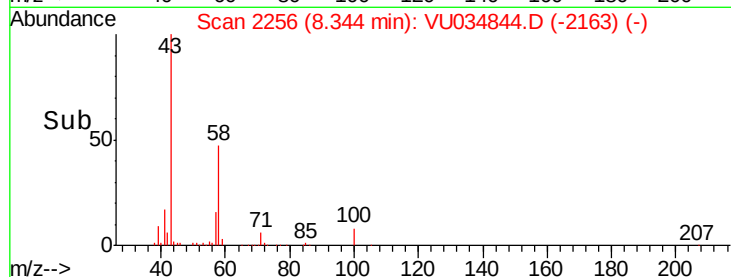
#48
2-Hexanone
Concen: 56.490 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tgt Ion:	43	Resp:	297297
Ion	Ratio	Lower	Upper
43	100		
58	46.1	41.2	61.8
57	16.3	13.3	19.9
100	8.7	7.2	10.8

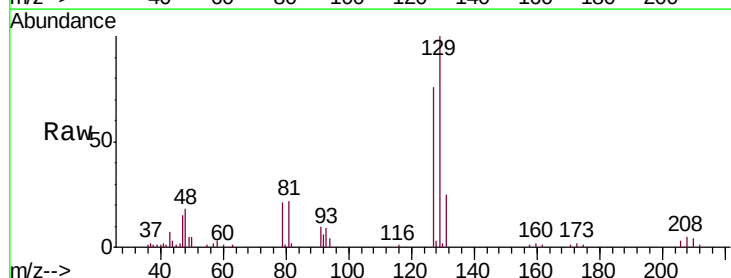


Abundance Ion 43.05 (42.75 to 43.75): VU034844.D (-2163) (-)
Ion 58.05 (57.75 to 58.75): VU034844.D (-2163) (-)
Ion 57.20 (56.90 to 57.90): VU034844.D (-2163) (-)
Ion 100.15 (99.85 to 100.85): VU034844.D (-2163) (-)

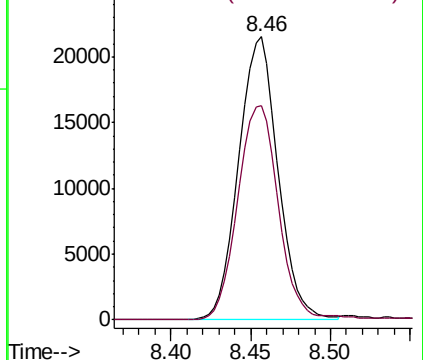
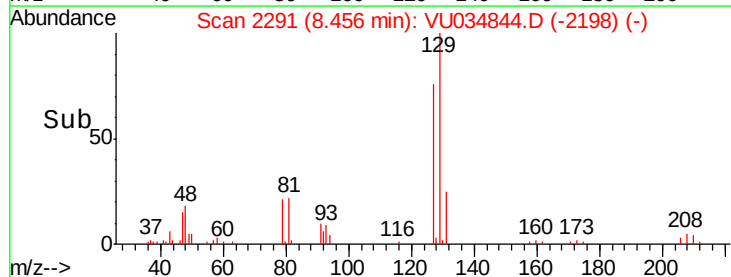


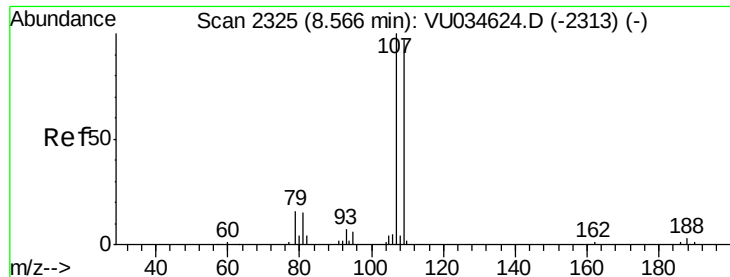
#49
Dibromochloromethane
Concen: 4.653 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion:	129	Resp:	36062
Ion	Ratio	Lower	Upper
129	100		
127	75.8	53.0	98.4



Abundance Ion 128.95 (128.65 to 129.65): VU034844.D (-2198) (-)
Ion 126.90 (126.60 to 127.60): VU034844.D (-2198) (-)

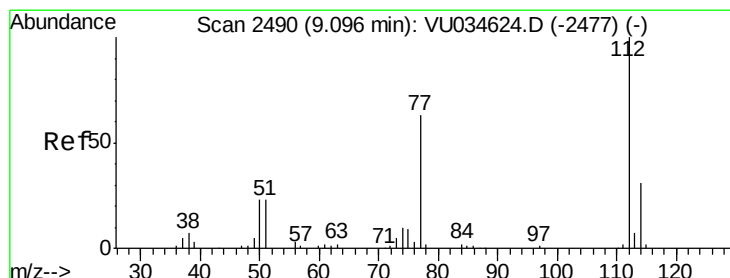
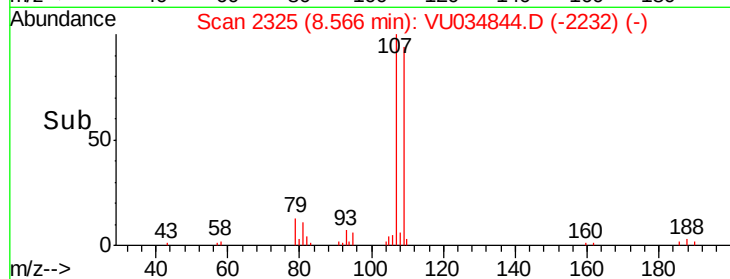
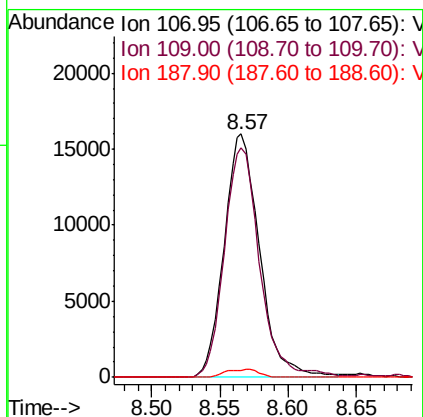
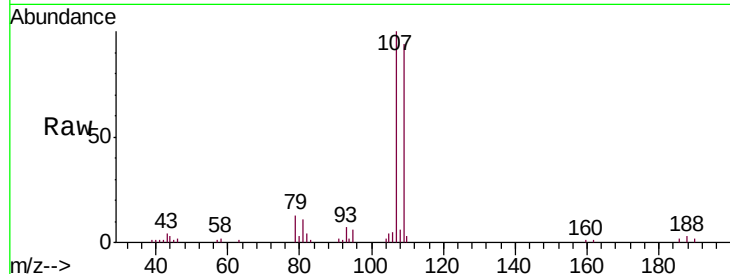




#50
1,2-Dibromoethane
Concen: 4.798 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

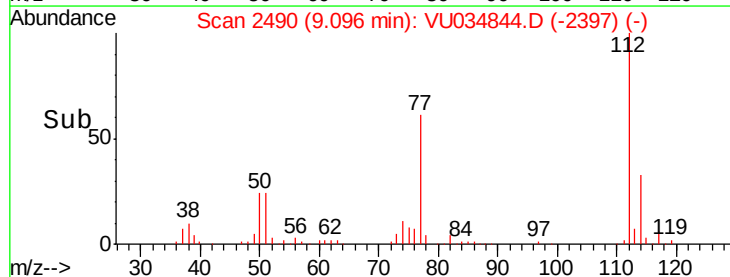
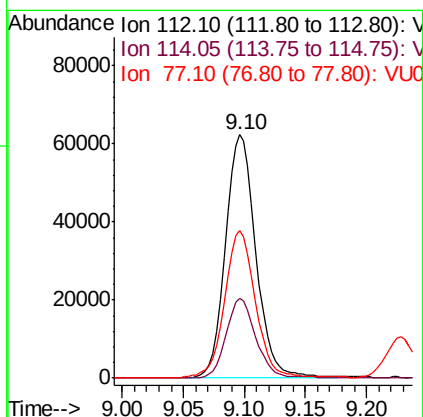
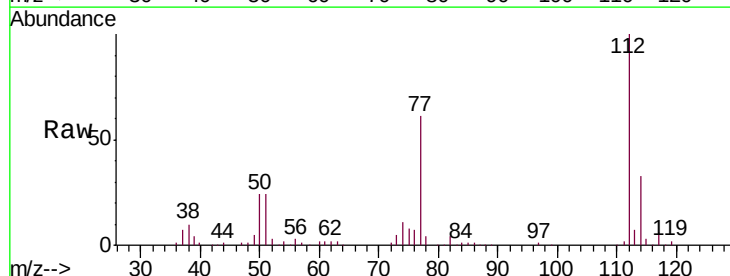
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

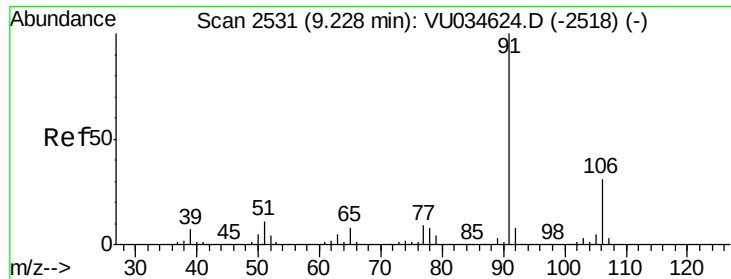
Tgt Ion:107 Resp: 28909
Ion Ratio Lower Upper
107 100
109 94.4 66.3 123.1
188 2.9 2.9 4.3



#51
Chlorobenzene
Concen: 4.785 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion:112 Resp: 109068
Ion Ratio Lower Upper
112 100
114 32.8 22.5 41.7
77 60.8 50.3 75.5

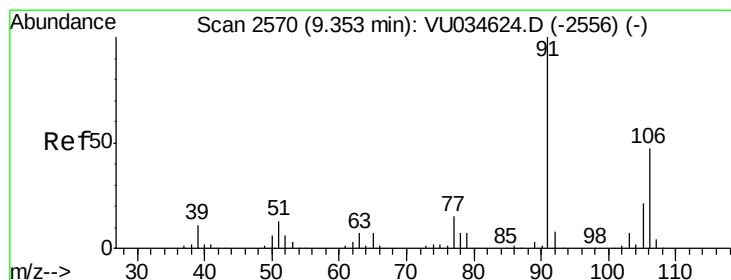
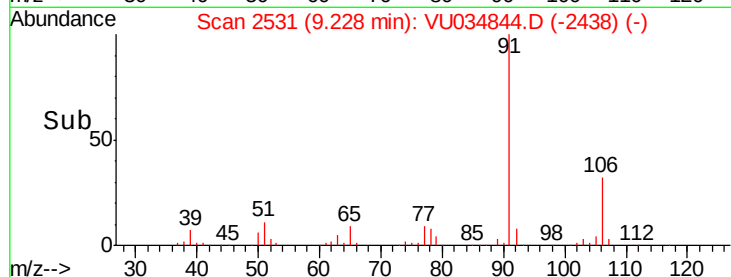
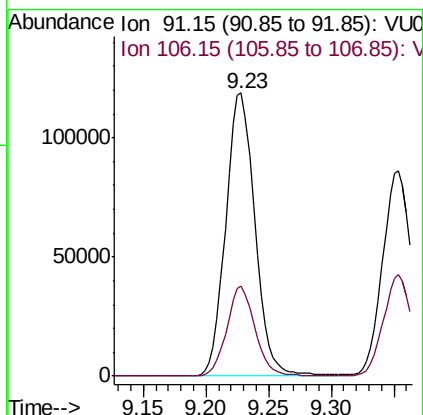
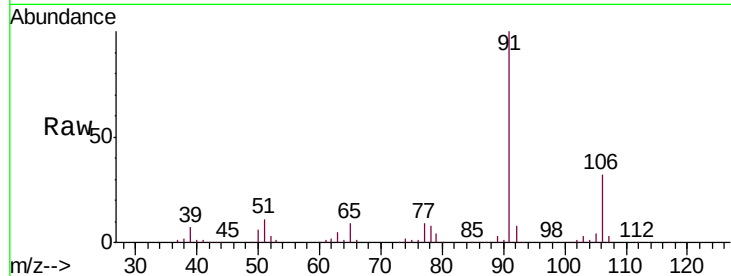




#52
Ethylbenzene
Concen: 4.591 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

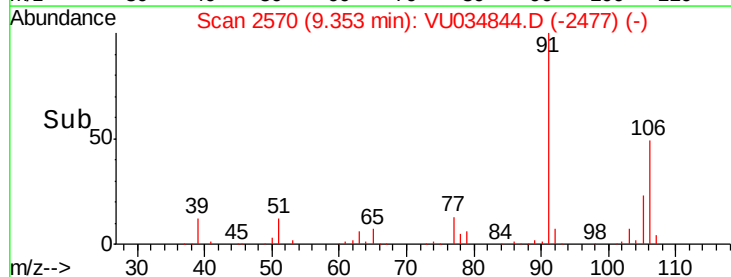
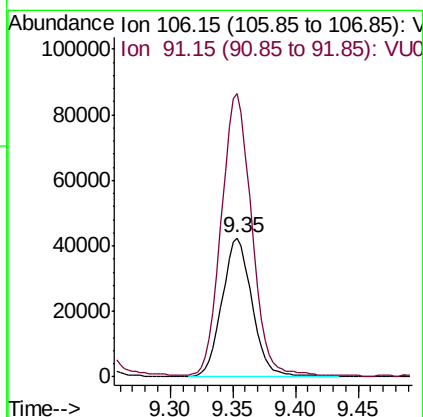
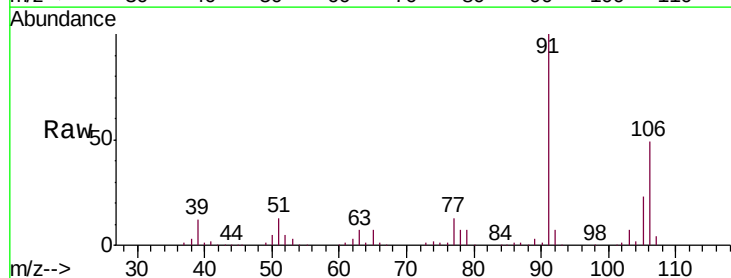
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

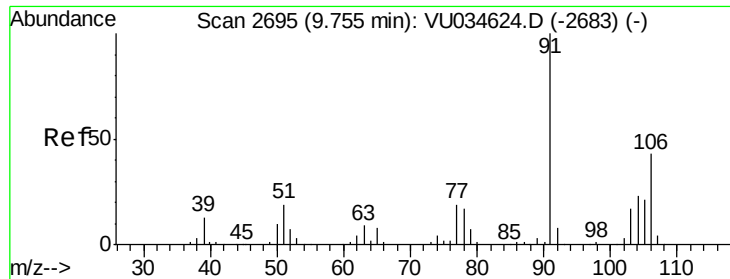
Tgt Ion: 91 Resp: 193000
Ion Ratio Lower Upper
91 100
106 31.7 20.9 38.7



#53
m,p-Xylene
Concen: 4.688 ug/L
RT: 9.35 min Scan# 2570
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion: 106 Resp: 69897
Ion Ratio Lower Upper
106 100
91 203.4 147.8 274.4

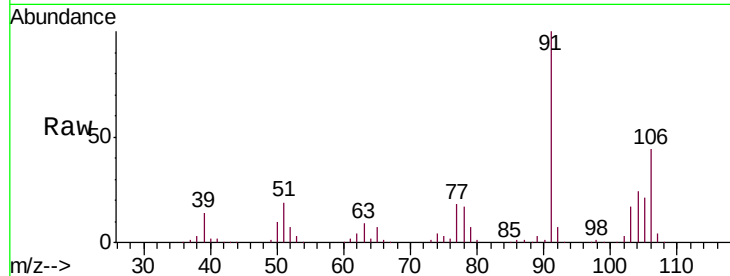




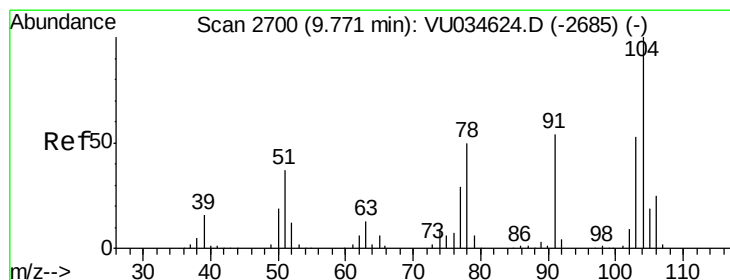
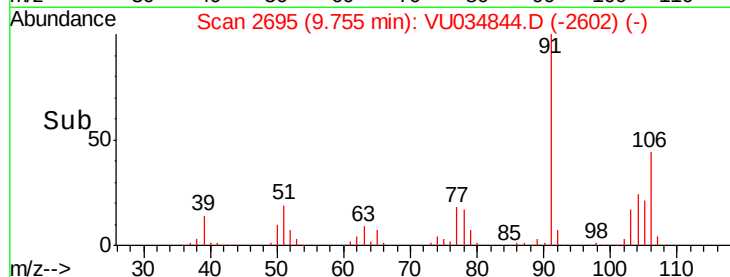
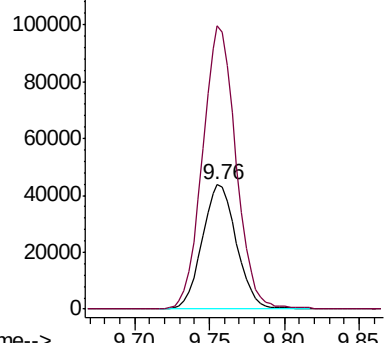
#54
o-Xylene
Concen: 4.659 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tgt Ion:106 Resp: 69782
Ion Ratio Lower Upper
106 100
91 227.7 151.9 282.1

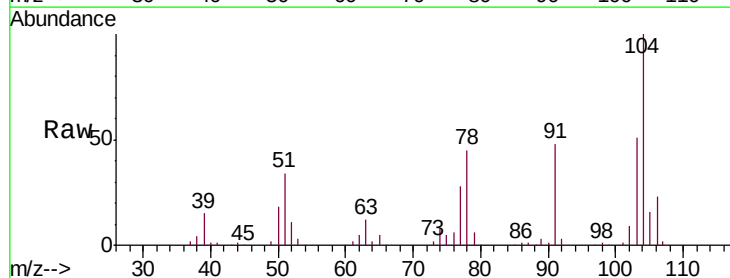


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

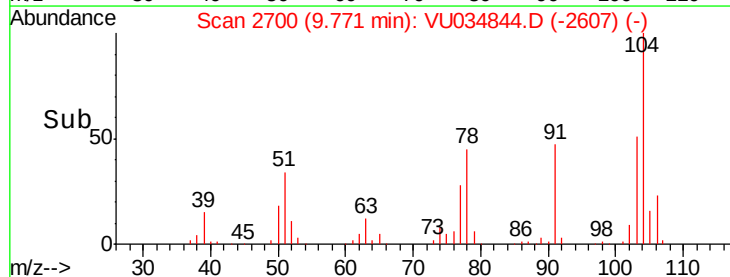
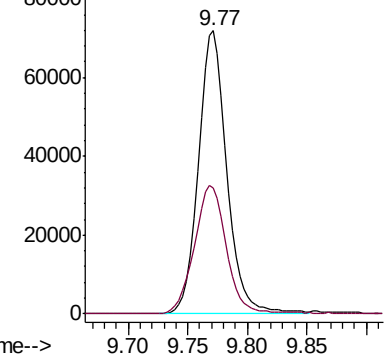


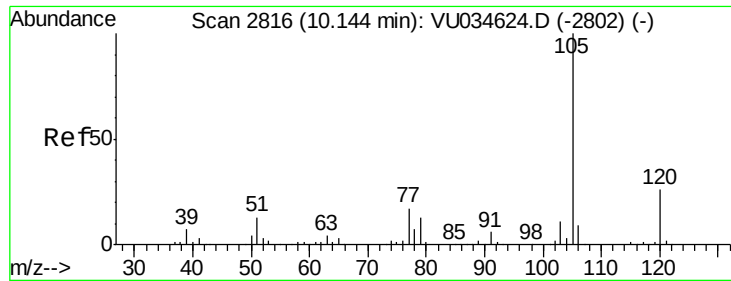
#55
Styrene
Concen: 4.789 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VU034844.D
Acq: 26 Sep 2019 15:41

Tgt Ion:104 Resp: 119154
Ion Ratio Lower Upper
104 100
78 44.6 35.4 65.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.603 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

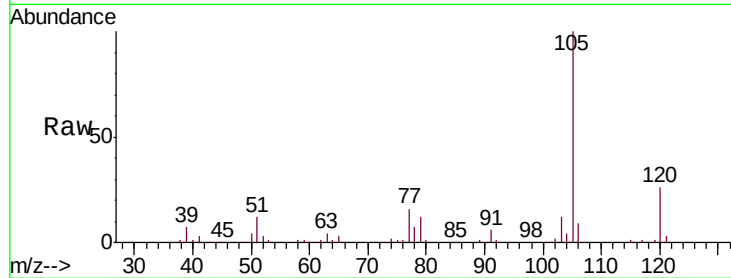
Tgt Ion: 105 Resp: 191530

Ion Ratio Lower Upper

105 100

120 25.8 19.8 29.6

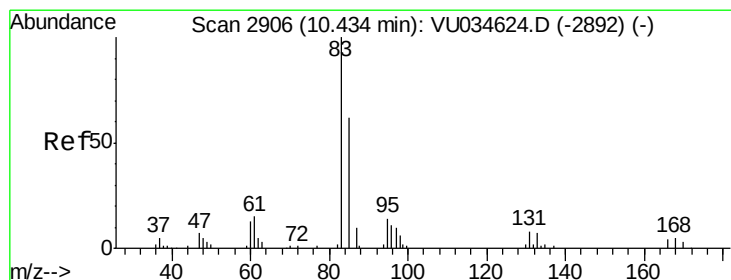
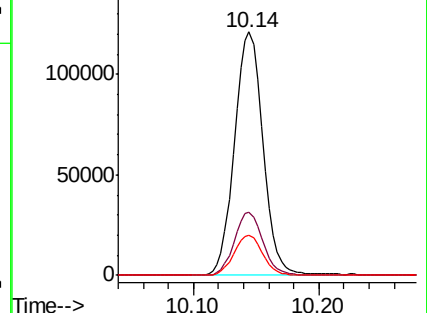
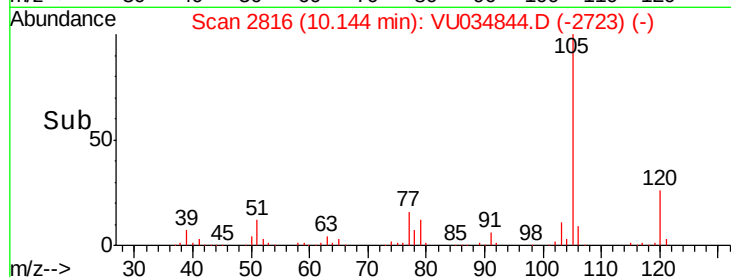
77 16.7 13.9 20.9



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: 4.740 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

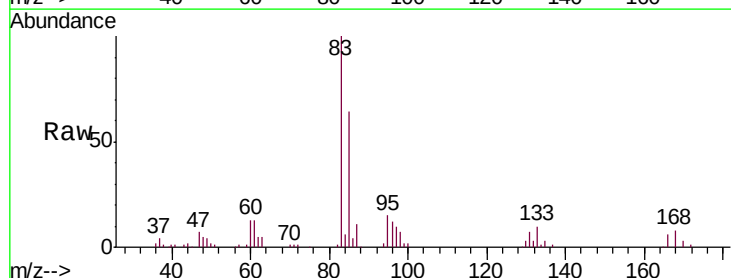
Tgt Ion: 83 Resp: 46243

Ion Ratio Lower Upper

83 100

85 63.9 44.4 82.4

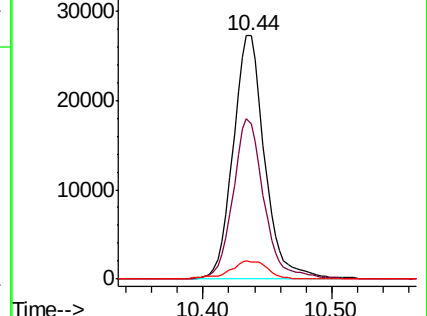
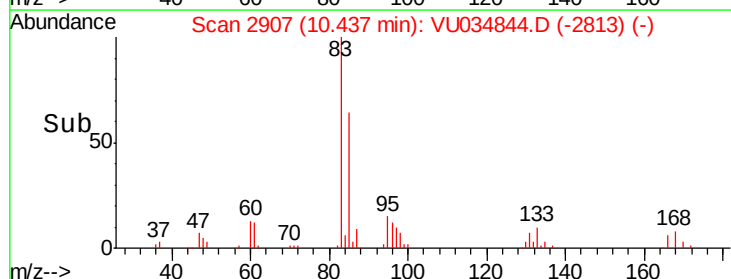
131 7.2 6.7 10.1

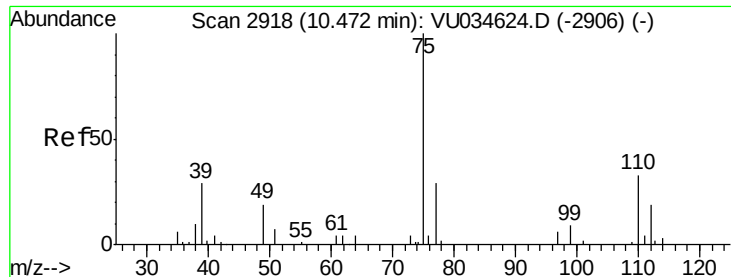


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

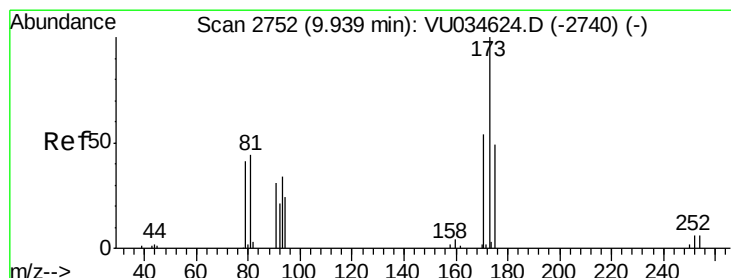
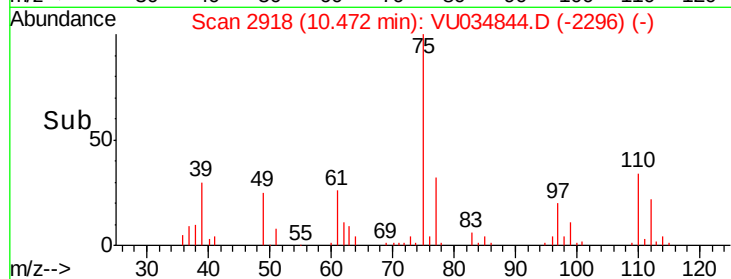
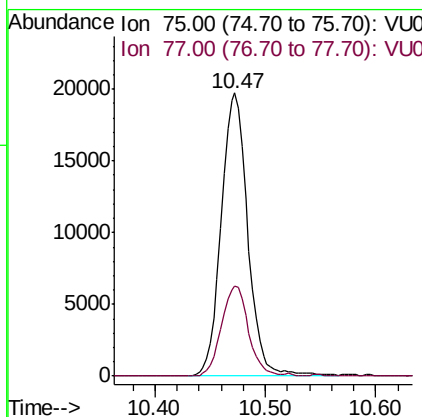
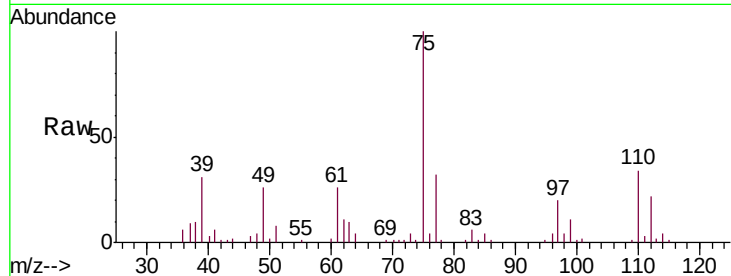




#59
 1,2,3-Trichloropropane
 Concen: 4.858 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

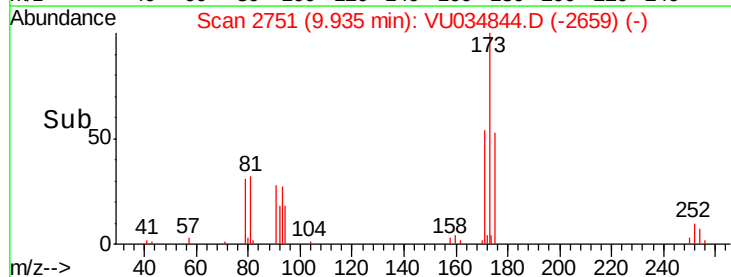
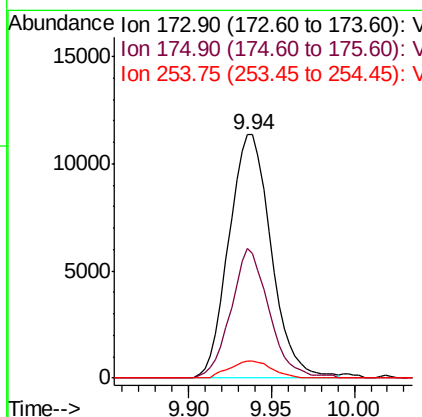
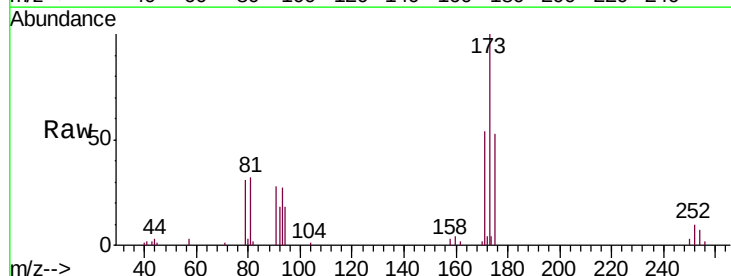
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

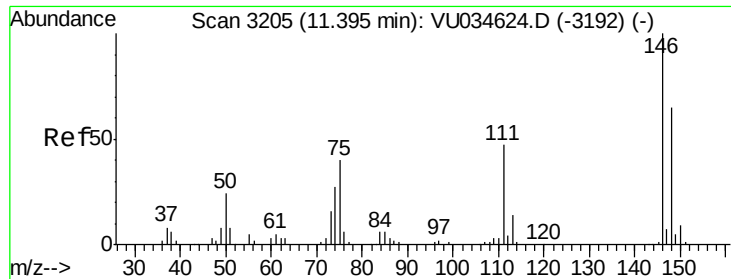
Tgt Ion: 75 Resp: 32975
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.0 39.0



#61
 Bromoform
 Concen: 4.862 ug/L
 RT: 9.94 min Scan# 2751
 Delta R.T. -0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Tgt Ion: 173 Resp: 20178
 Ion Ratio Lower Upper
 173 100
 175 48.0 40.0 60.0
 254 7.1 3.5 5.3#

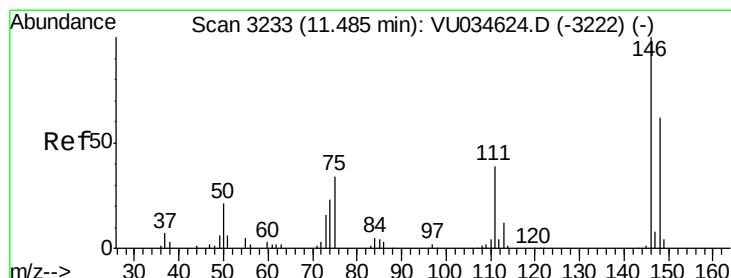
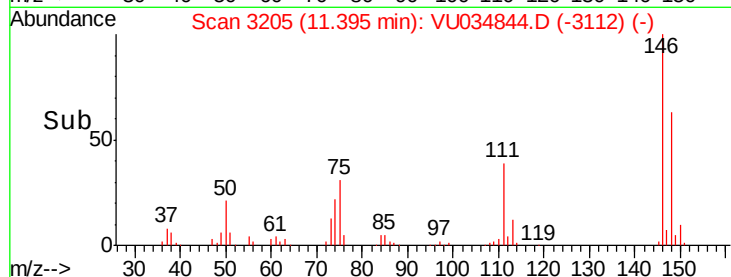
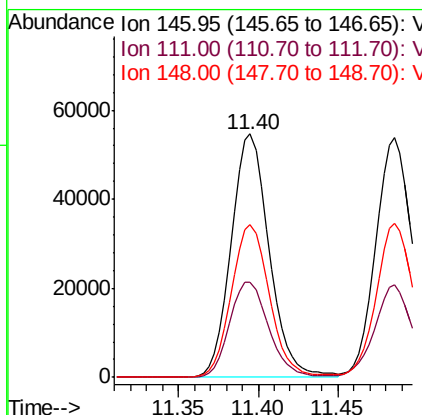
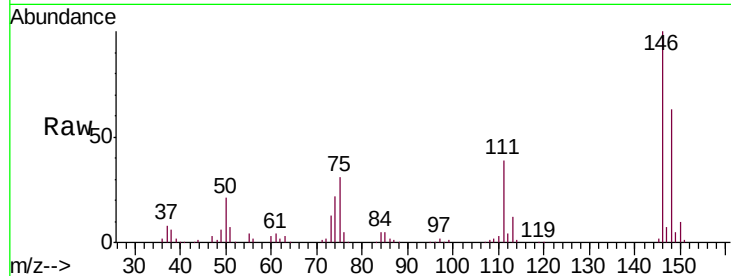




#62
 1,3-Dichlorobenzene
 Concen: 4.794 ug/L
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

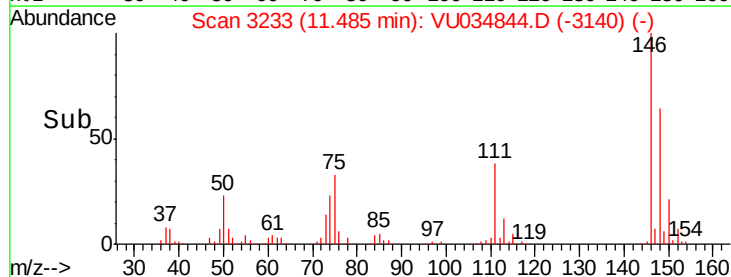
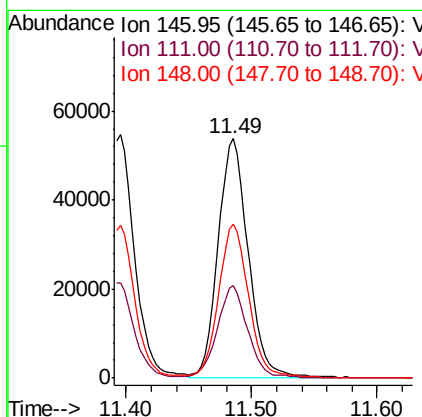
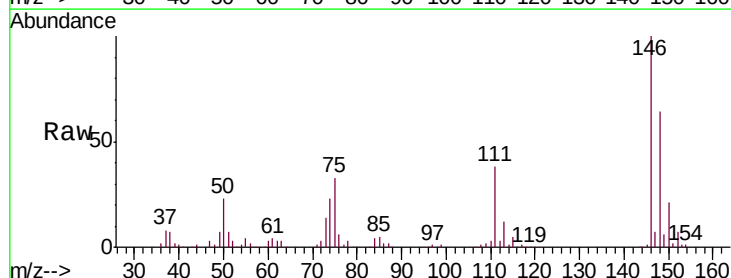
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

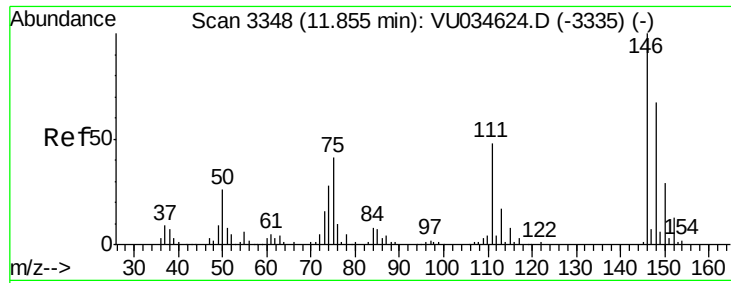
Tgt Ion:146 Resp: 88443
 Ion Ratio Lower Upper
 146 100
 111 39.3 32.8 61.0
 148 62.5 45.9 85.3



#63
 1,4-Dichlorobenzene
 Concen: 4.825 ug/L
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Tgt Ion:146 Resp: 88861
 Ion Ratio Lower Upper
 146 100
 111 38.4 30.2 56.2
 148 64.2 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 4.782 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

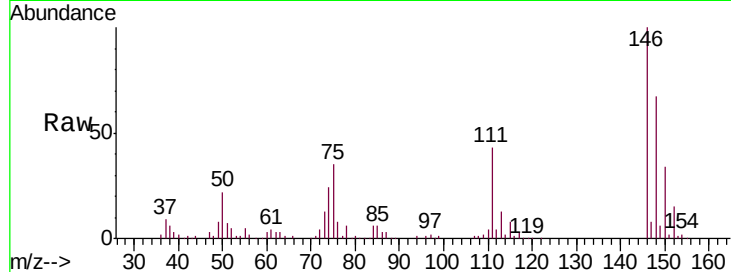
Tgt Ion:146 Resp: 86337

Ion Ratio Lower Upper

146 100

111 42.9 37.1 55.7

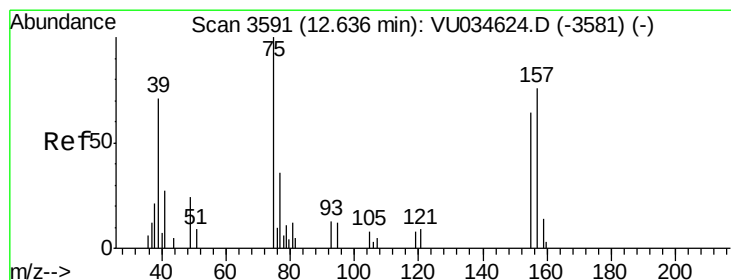
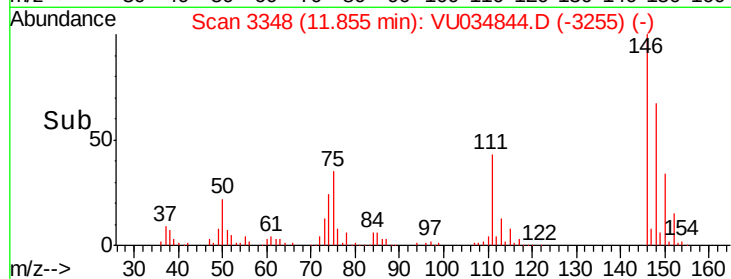
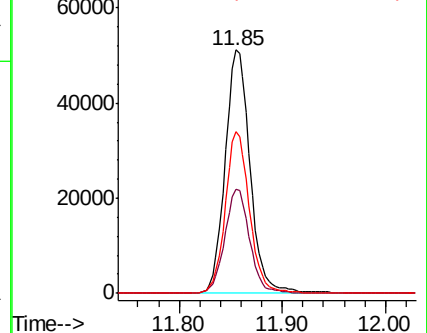
148 66.6 51.8 77.6



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: 4.351 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

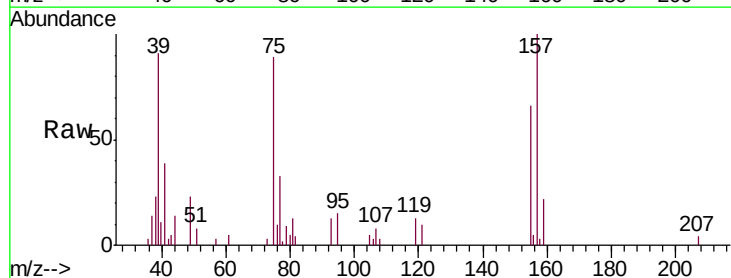
Tgt Ion: 75 Resp: 7114

Ion Ratio Lower Upper

75 100

155 74.5 49.1 73.7#

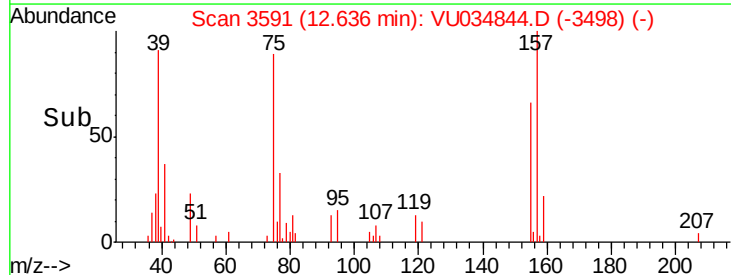
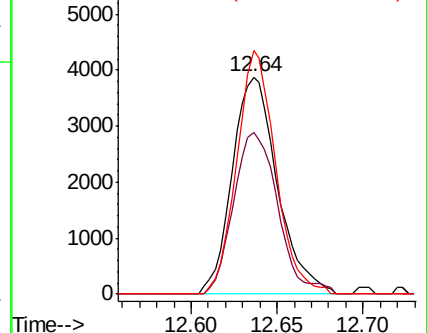
157 112.2 70.8 106.2#

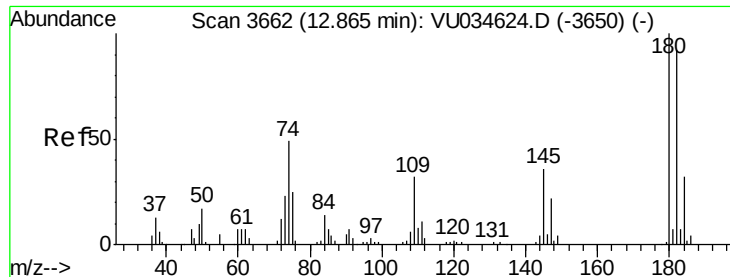


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

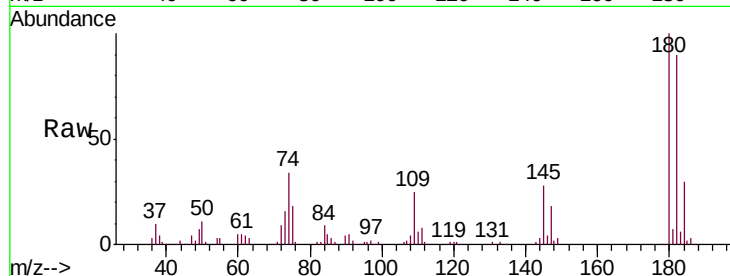




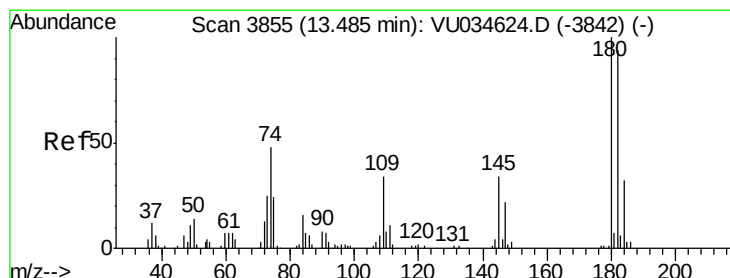
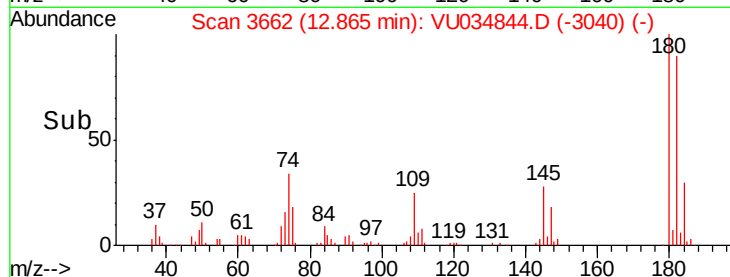
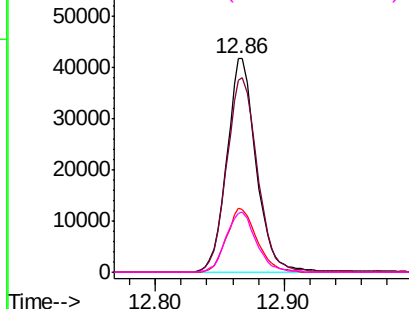
#67
 1,3,5-Trichlorobenzene
 Concen: 5.462 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tgt Ion:180 Resp: 65863
 Ion Ratio Lower Upper
 180 100
 182 95.5 74.5 111.7
 184 30.7 23.4 35.2
 145 29.0 27.0 40.4

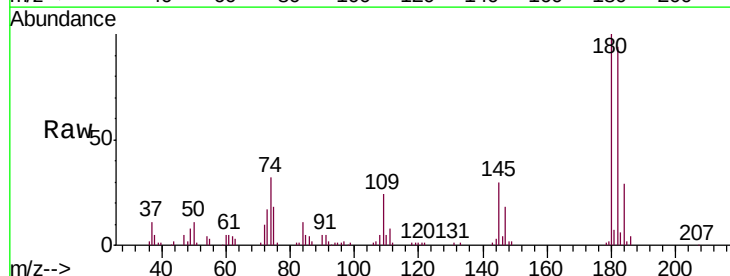


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

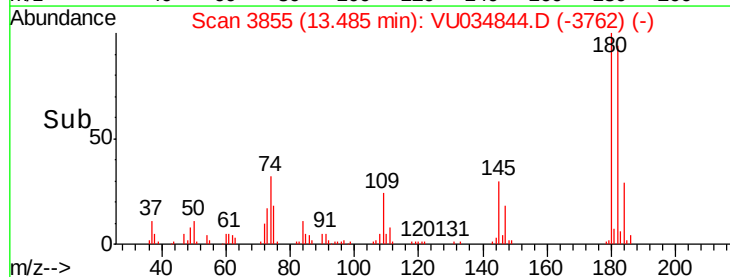
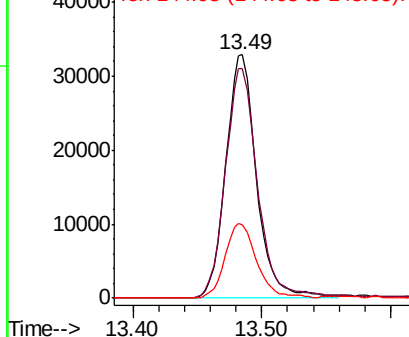


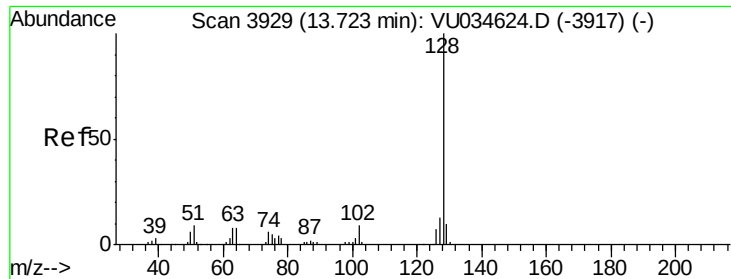
#68
 1,2,4-trichlorobenzene
 Concen: 5.676 ug/L
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034844.D
 Acq: 26 Sep 2019 15:41

Tgt Ion:180 Resp: 54570
 Ion Ratio Lower Upper
 180 100
 182 98.3 76.9 115.3
 145 31.5 26.2 39.4



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: 4.837 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

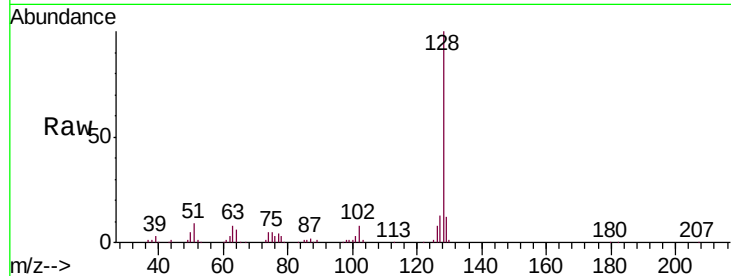
Tgt Ion:128 Resp: 113259

Ion Ratio Lower Upper

128 100

129 11.4 9.2 13.8

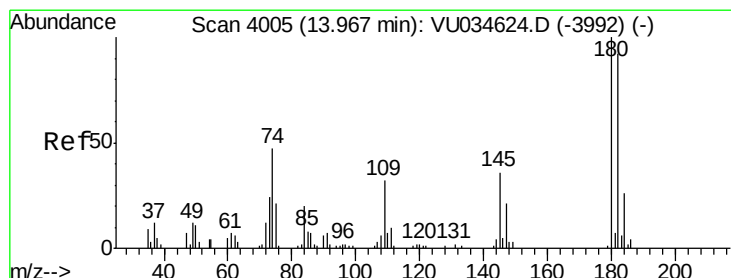
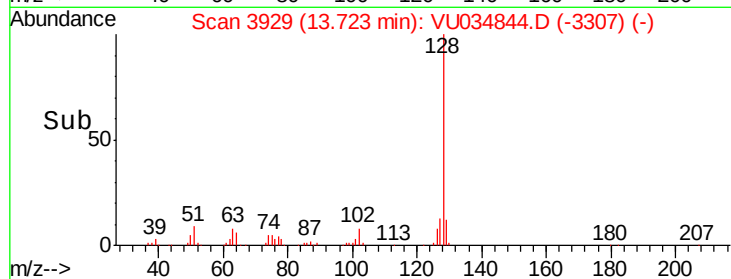
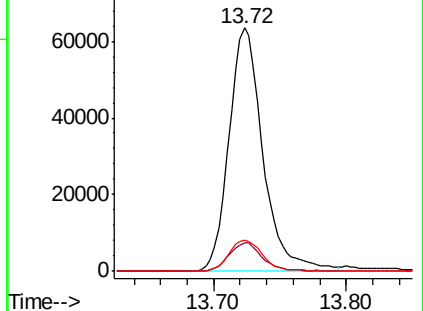
127 13.1 10.7 16.1



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: 5.664 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034844.D

Acq: 26 Sep 2019 15:41

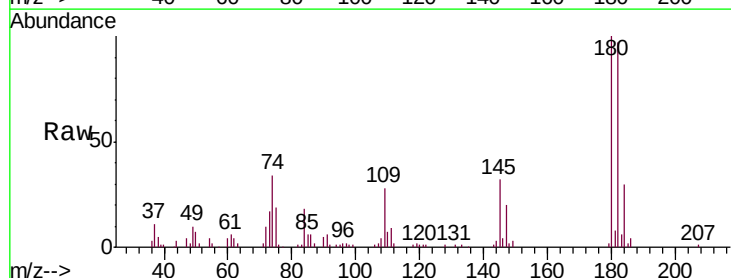
Tgt Ion:180 Resp: 51012

Ion Ratio Lower Upper

180 100

182 96.4 76.6 114.8

145 31.8 28.9 43.3



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

