

Data File : VU035039.D
Acq On : 10 Oct 2019 11:30
Operator : JC/SP
Sample : MDL04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Manual Integrations
APPROVED

MMDadoda
10/11/2019 8:32:25 AM

Quant Time: Oct 11 03:02:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 11 02:39:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	164391	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	167685	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	71659	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	55488	5.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	114.20%
7) Chloroethane-d5	1.67	69	52366	5.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	115.40%
11) 1,1-Dichloroethene-d2	2.26	63	81090	3.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.20%
20) 2-Butanone-d5	4.18	46	164604	57.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.04%
24) Chloroform-d	4.62	84	96629	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
26) 1,2-Dichloroethane-d4	5.29	65	58187	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.00%
32) Benzene-d6	5.31	84	200148	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
36) 1,2-Dichloropropane-d6	6.31	67	69487	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.55	98	180149	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	7.84	79	21667	4.58	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.60%
46) 2-Hexanone-d5	8.30	63	113389	50.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.80%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	57689	5.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.20%
64) 1,2-Dichlorobenzene-d4	11.84	152	66041	5.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	4690	0.312 ug/L	96
3) Chloromethane	1.32	50	5793	0.352 ug/L	99
5) Vinyl chloride	1.40	62	5572	0.344 ug/L	84
6) Bromomethane	1.62	94	3080	0.342 ug/L	91
8) Chloroethane	1.69	64	3279	0.338 ug/L	92
9) Trichlorofluoromethane	1.88	101	7029	0.359 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	4414	0.393 ug/L #	81
12) 1,1-Dichloroethene	2.27	96	4088	0.387 ug/L #	1
13) Acetone	2.33	43	9505	4.055 ug/L	99
14) Carbon disulfide	2.46	76	11030	0.314 ug/L #	94
15) Methyl Acetate	2.61	43	2865	0.459 ug/L #	90
16) Methylene chloride	2.69	84	6351	0.486 ug/L	97
17) Methyl tert-butyl Ether	2.99	73	9648	0.335 ug/L #	89
18) trans-1,2-Dichloroethene	2.96	96	3856	0.341 ug/L	93
19) 1,1-Dichloroethane	3.42	63	7640	0.340 ug/L	97
21) 2-Butanone	4.28	43	11647	3.490 ug/L	94
22) cis-1,2-Dichloroethene	4.21	96	3754	0.298 ug/L	72

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	1774	0.336	ug/L #	87
25) Chloroform	4.65	83	16917	0.670	ug/L	90
27) 1,2-Dichloroethane	5.39	62	4793	0.325	ug/L	97
29) 1,1,1-Trichloroethane	4.89	97	5726	0.304	ug/L	96
30) Cyclohexane	4.97	56	6174	0.298	ug/L	96
31) Carbon tetrachloride	5.11	117	4938	0.302	ug/L	95
33) Benzene	5.37	78	16610	0.329	ug/L	100
34) Trichloroethene	6.17	95	3745	0.287	ug/L	95
35) Methylcyclohexane	6.39	83	6388	0.303	ug/L	98
37) 1,2-Dichloropropane	6.42	63	4533	0.333	ug/L #	91
38) Bromodichloromethane	6.74	83	5270	0.330	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	5723	0.310	ug/L	98
40) 4-Methyl-2-pentanone	7.45	43	25834	3.013	ug/L #	85
42) Toluene	7.62	91	16333	0.310	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	4314	0.302	ug/L #	82
45) 1,1,2-Trichloroethane	8.05	97	3070	0.339	ug/L	97
47) Tetrachloroethene	8.21	164	3220	0.305	ug/L	93
48) 2-Hexanone	8.36	43	22694	3.860	ug/L	92
49) Dibromochloromethane	8.46	129	3118	0.298	ug/L	95
50) 1,2-Dibromoethane	8.57	107	3006	0.348	ug/L #	91
51) Chlorobenzene	9.10	112	10678	0.313	ug/L	97
52) Ethylbenzene	9.23	91	17119	0.294	ug/L	96
53) m,p-Xylene	9.36	106	6115	0.284	ug/L	93
54) o-Xylene	9.76	106	6024	0.286	ug/L	93
55) Styrene	9.78	104	8796	0.258	ug/L	99
56) Isopropylbenzene	10.15	105	15830	0.282	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.44	83	4416	0.359	ug/L #	93
59) 1,2,3-Trichloropropane	10.48	75	3133m	0.355	ug/L	
61) Bromoform	9.94	173	1668	0.339	ug/L #	85
62) 1,3-Dichlorobenzene	11.40	146	7604	0.344	ug/L	90
63) 1,4-Dichlorobenzene	11.49	146	7852	0.352	ug/L	95
65) 1,2-Dichlorobenzene	11.86	146	7729	0.363	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	335	0.247	ug/L #	70
67) 1,3,5-Trichlorobenzene	12.87	180	3990	0.267	ug/L	96
68) 1,2,4-trichlorobenzene	13.51	180	1988m	0.178	ug/L	
69) Naphthalene	13.75	128	2915m	0.168	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	2417m	0.223	ug/L	

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

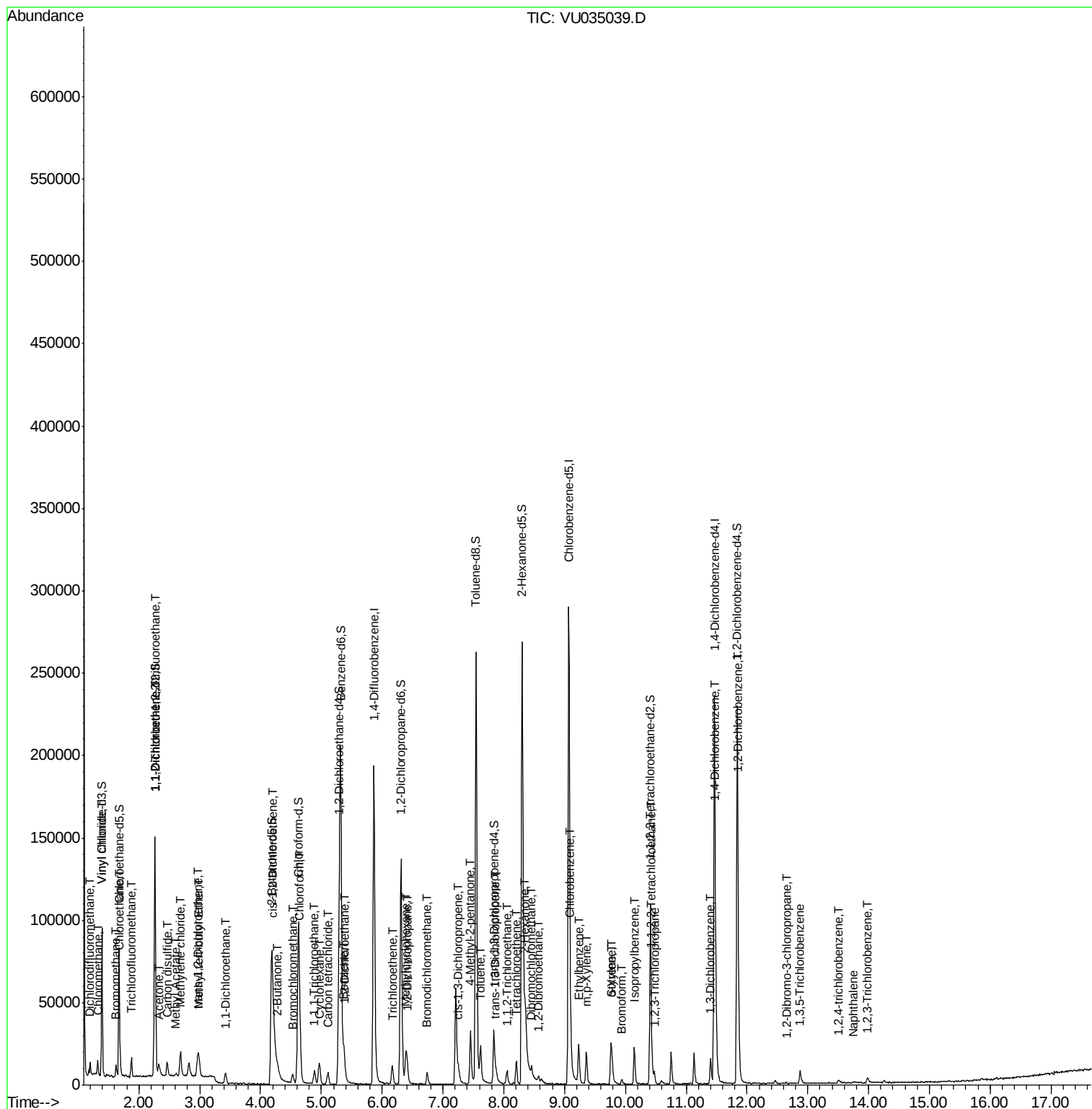
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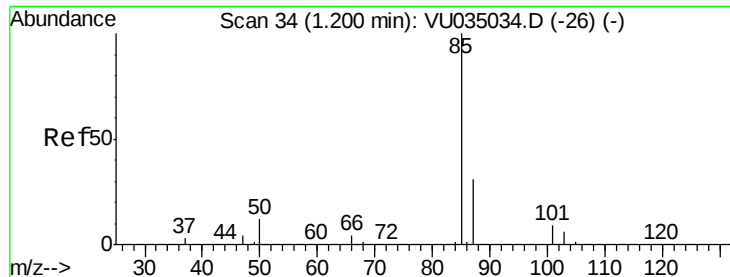
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.312 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampleID :

MDL04

Tgt Ion: 85 Resp: 4690

Ion Ratio Lower Upper

85 100

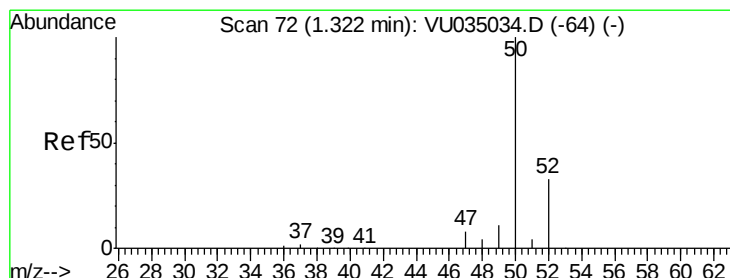
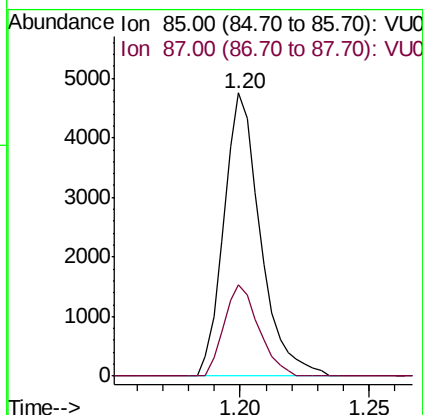
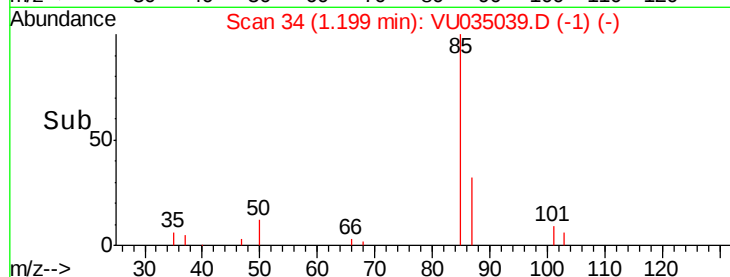
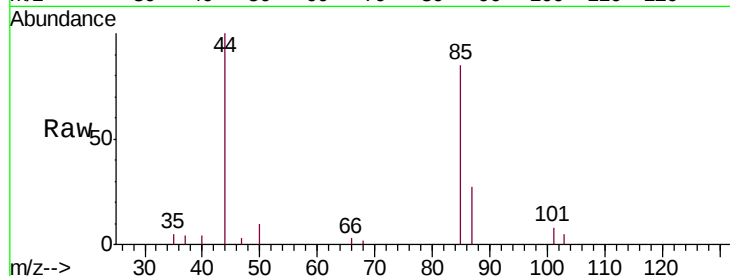
87 30.4 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

10/11/2019 8:32:25 AM



#3

Chloromethane

Concen: 0.352 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU035039.D

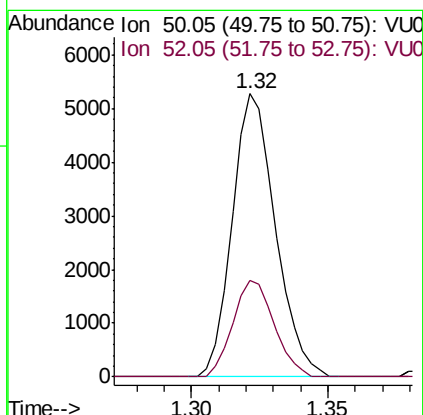
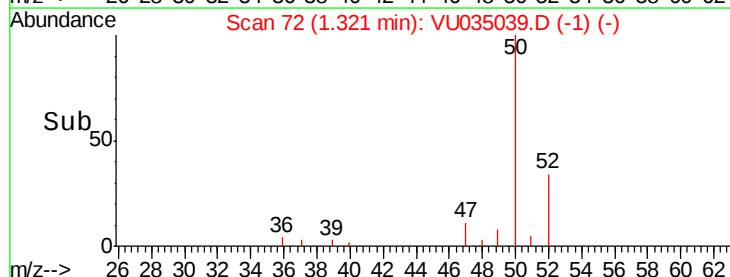
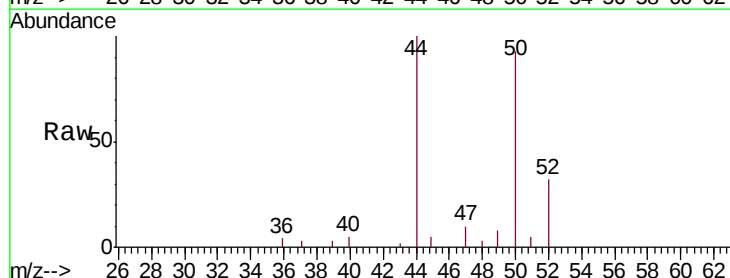
Acq: 10 Oct 2019 11:30

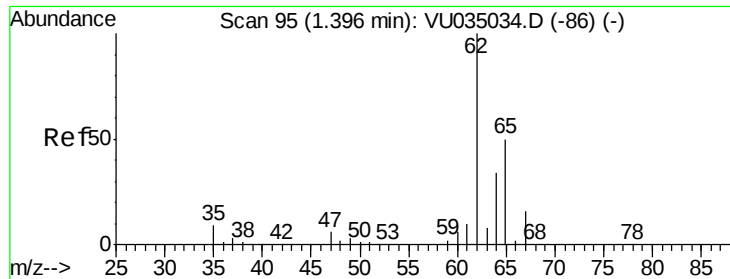
Tgt Ion: 50 Resp: 5793

Ion Ratio Lower Upper

50 100

52 34.0 23.3 43.3





#5

Vinyl chloride

Concen: 0.344 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 62 Resp: 5572

Ion Ratio Lower Upper

62 100

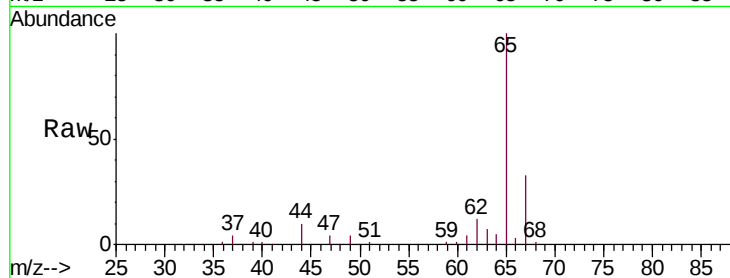
64 41.5 22.8 42.4

Manual Integrations

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MMDadoda

10/11/2019 8:32:25 AM



Abundance Ion 62.00 (61.70 to 62.70): VU035039.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU035039.D (-86) (-)

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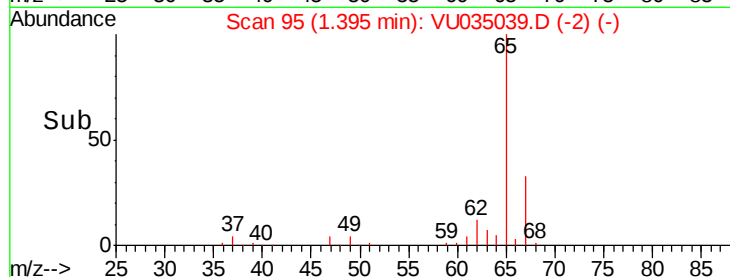
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Abundance Ion 62.00 (61.70 to 62.70): VU035039.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU035039.D (-86) (-)

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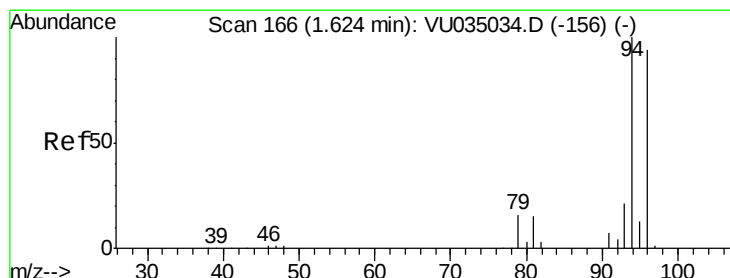
1.40

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#6

Bromomethane

Concen: 0.342 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035039.D

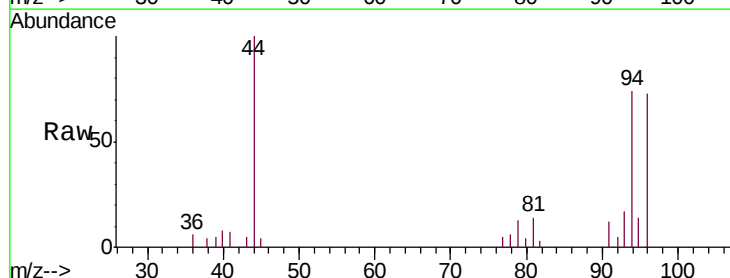
Acq: 10 Oct 2019 11:30

Tgt Ion: 94 Resp: 3080

Ion Ratio Lower Upper

94 100

96 97.9 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU035039.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035039.D (-156) (-)

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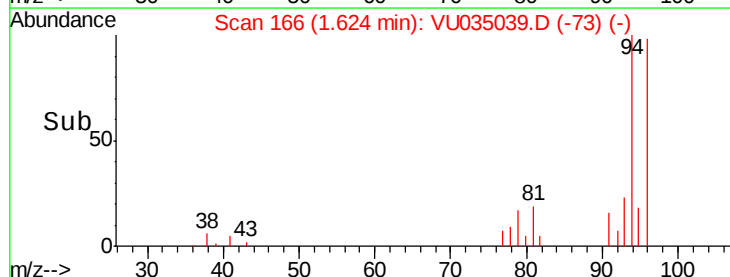
1.62

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Abundance Ion 94.00 (93.70 to 94.70): VU035039.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035039.D (-156) (-)

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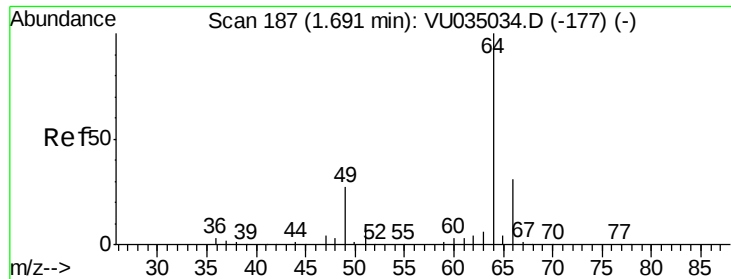
1.62

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#8

Chloroethane

Concen: 0.338 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 64 Resp: 3279

Ion Ratio Lower Upper

64 100

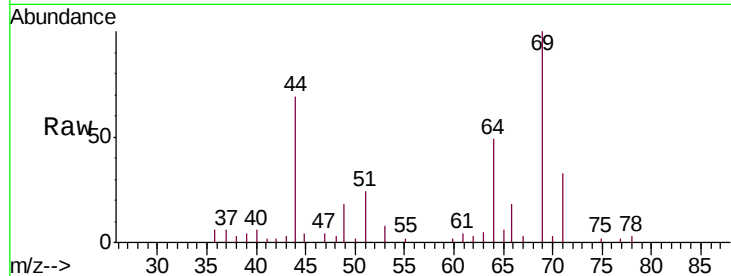
66 37.6 23.2 43.2

Manual Integrations

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MMDadoda

10/11/2019 8:32:25 AM



Abundance Ion 64.10 (63.80 to 64.80): VU035039.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU035039.D (-177) (-)

3000

2500

2000

1500

1000

500

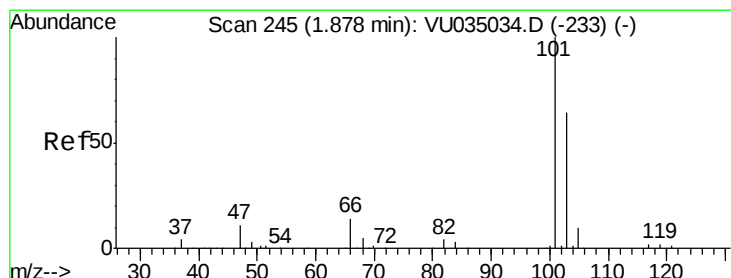
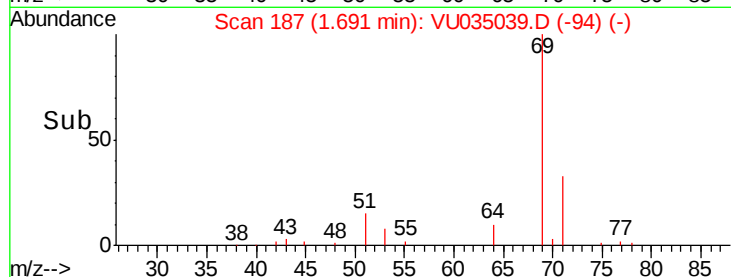
0

1.65

1.70

1.75

Time-->



#9

Trichlorofluoromethane

Concen: 0.359 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035039.D

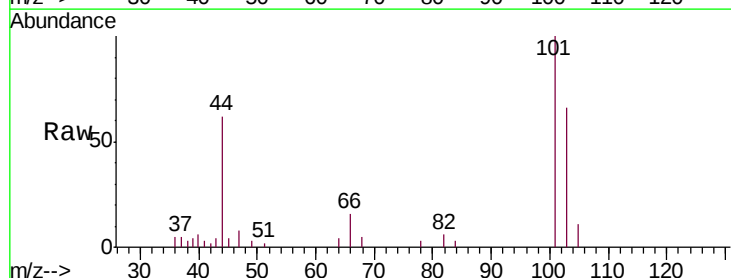
Acq: 10 Oct 2019 11:30

Tgt Ion: 101 Resp: 7029

Ion Ratio Lower Upper

101 100

103 63.3 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU035039.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU035039.D (-233) (-)

6000

5000

4000

3000

2000

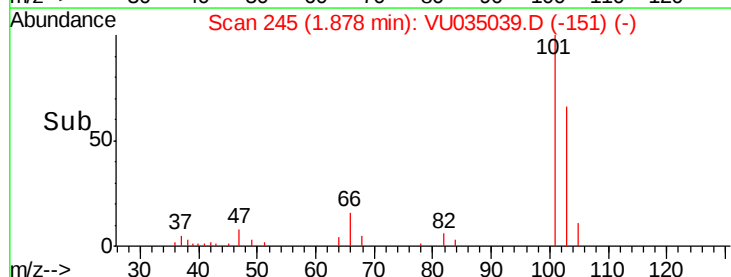
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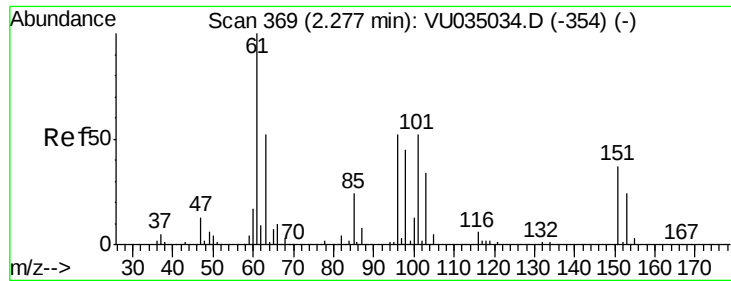
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1.85

1.90

Time-->





#10

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

Concen: 0.393 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

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Instrument :

MSVOA_U

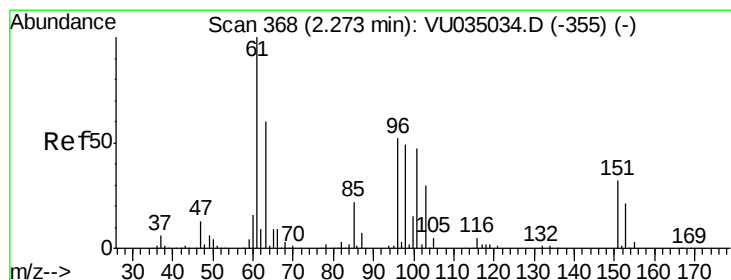
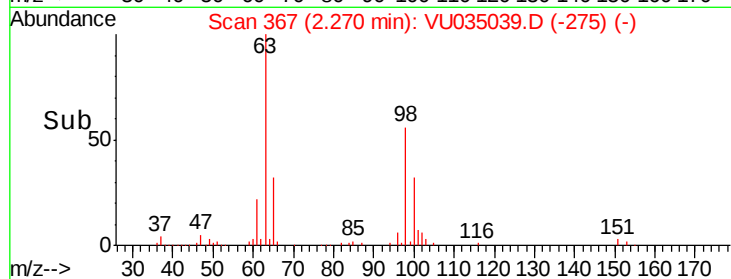
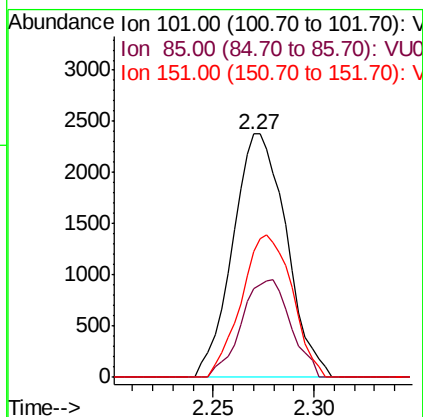
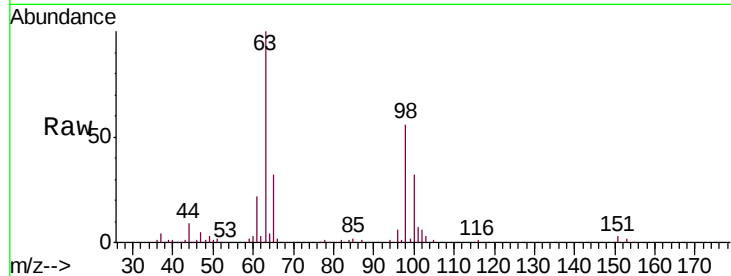
ClientSampled :

MDL04

Tgt Ion:	101	Resp:	4414
Ion Ratio	Lower	Upper	
101	100		
85	36.7	37.4	56.0#
151	55.4	58.6	87.8#

Manual Integrations
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10/11/2019 8:32:25 AM



#12

1,1-Dichloroethene

Concen: 0.387 ug/L

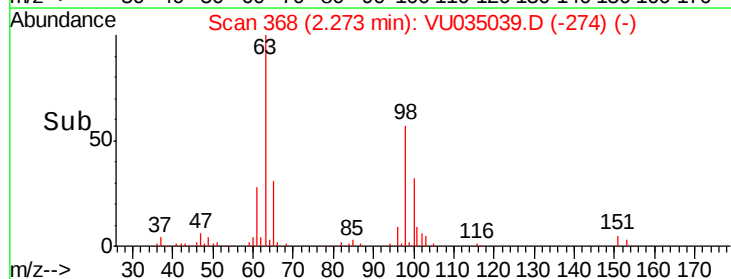
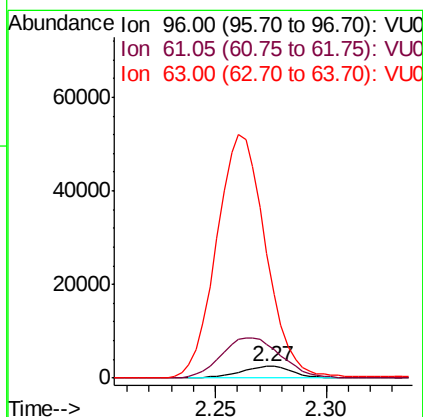
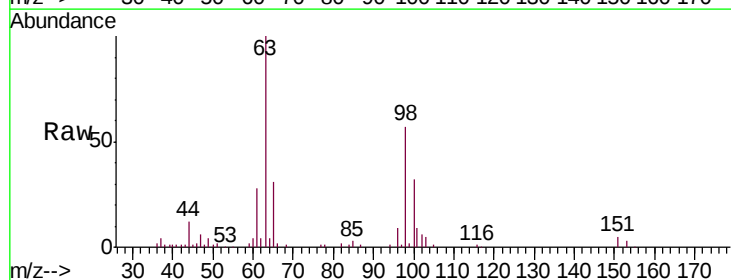
RT: 2.27 min Scan# 368

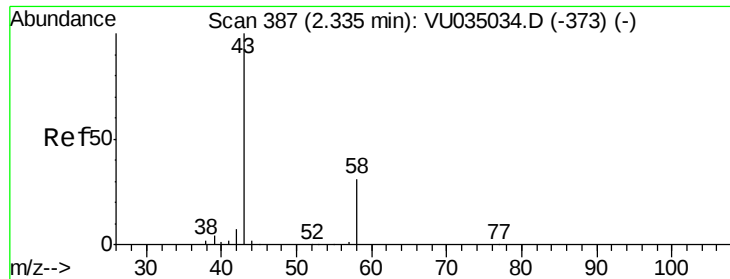
Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Tgt Ion:	96	Resp:	4088
Ion Ratio	Lower	Upper	
96	100		
61	297.5	129.3	240.1#
63	1081.6	108.9	202.3#





#13

Acetone

Concen: 4.055 ug/L

RT: 2.33 min Scan# 385

Delta R.T. -0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 43 Resp: 9505

Ion Ratio Lower Upper

43 100

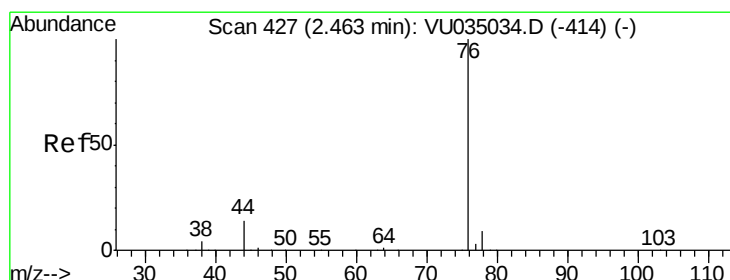
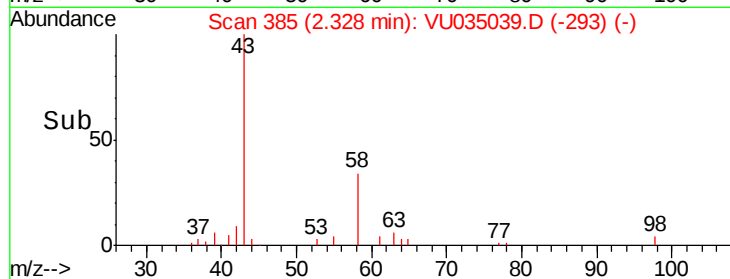
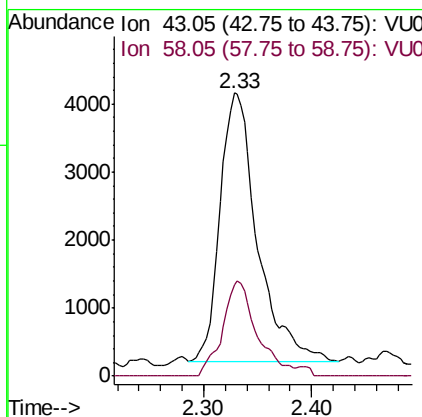
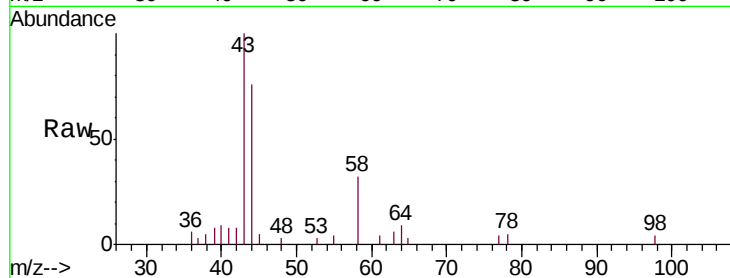
58 32.7 0.0 66.6

Manual Integrations

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#14

Carbon disulfide

Concen: 0.314 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU035039.D

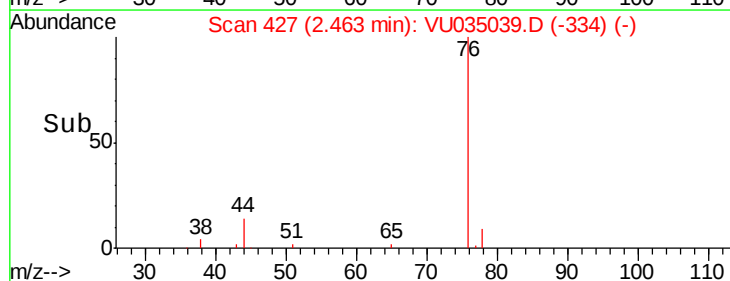
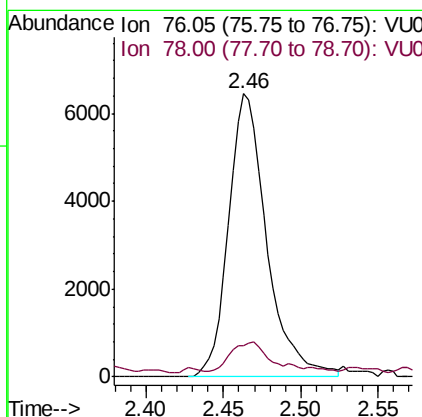
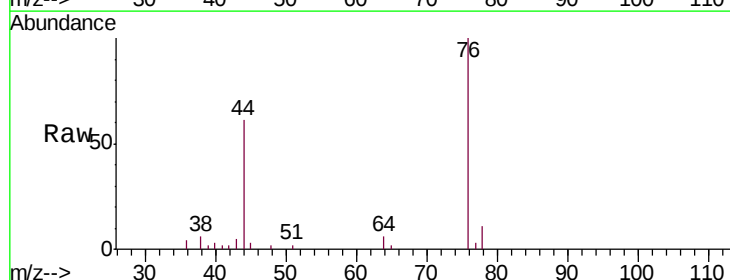
Acq: 10 Oct 2019 11:30

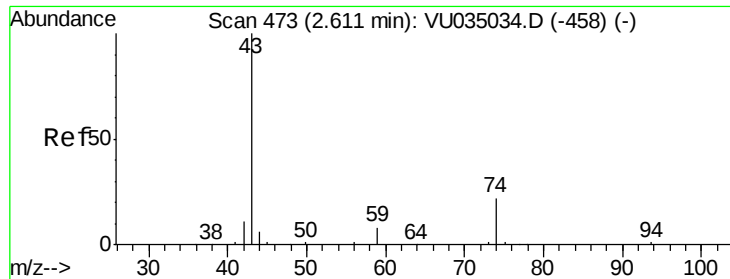
Tgt Ion: 76 Resp: 11030

Ion Ratio Lower Upper

76 100

78 10.9 7.1 10.7#





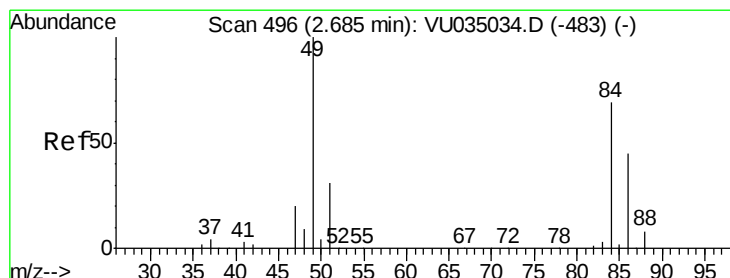
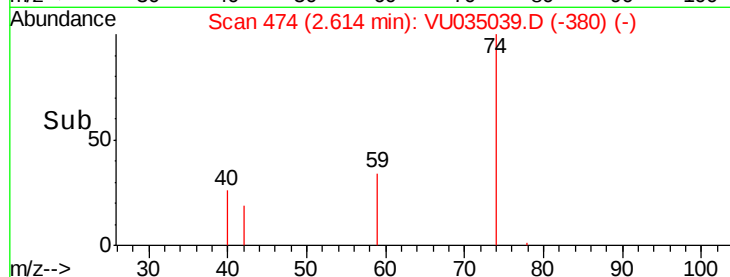
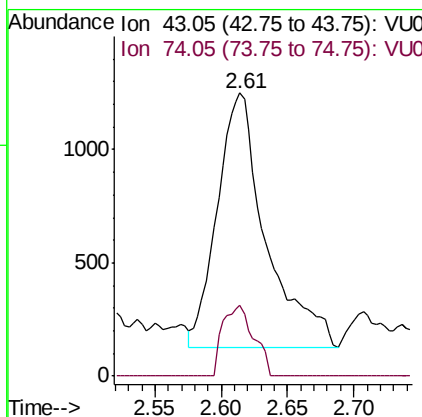
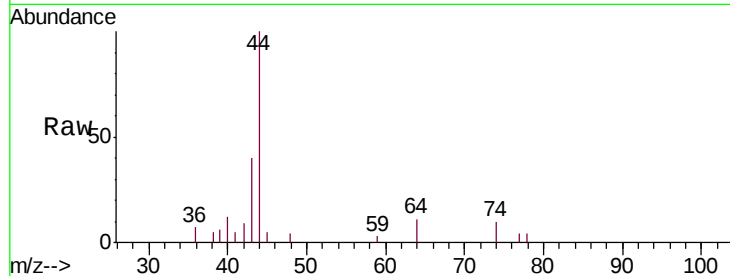
#15
Methyl Acetate
Concen: 0.459 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tgt Ion: 43 Resp: 2865
Ion Ratio Lower Upper
43 100
74 17.7 17.8 26.8#

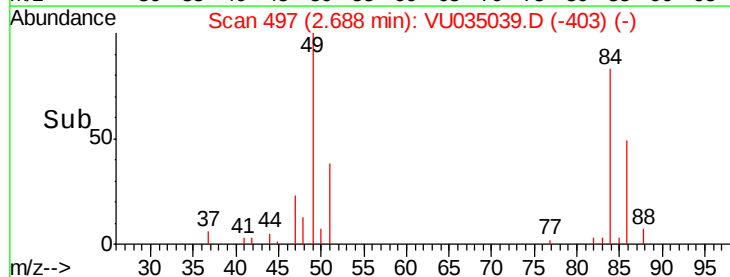
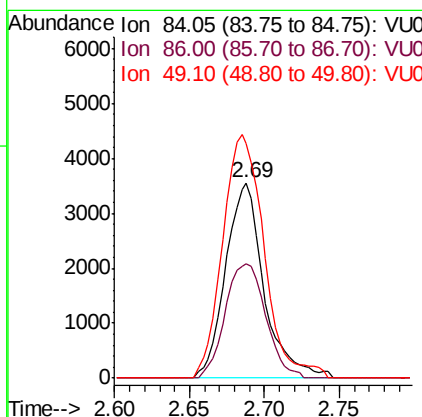
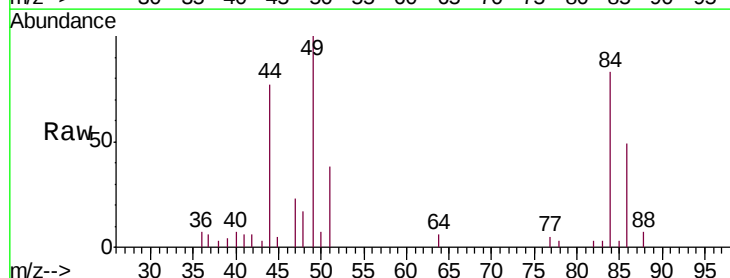
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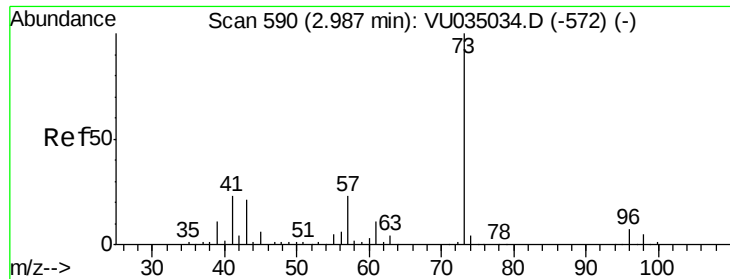
MMDadoda
10/11/2019 8:32:25 AM



#16
Methylene chloride
Concen: 0.486 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion: 84 Resp: 6351
Ion Ratio Lower Upper
84 100
86 58.5 42.5 78.9
49 120.0 86.9 161.3





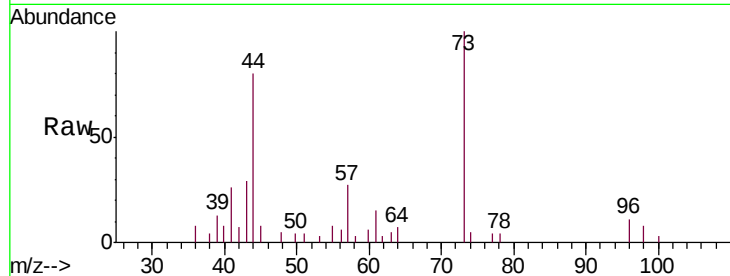
#17
Methyl tert-butyl Ether
Concen: 0.335 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampled :
MDL04

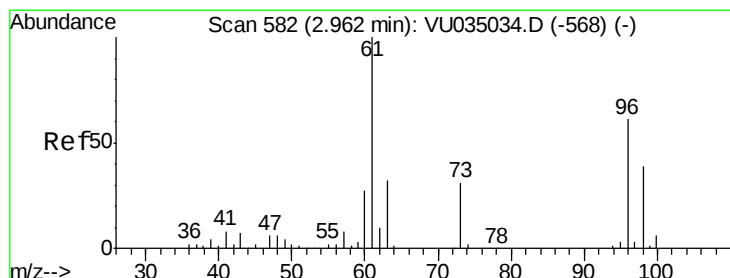
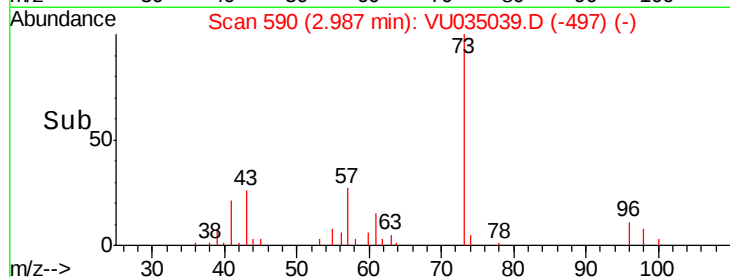
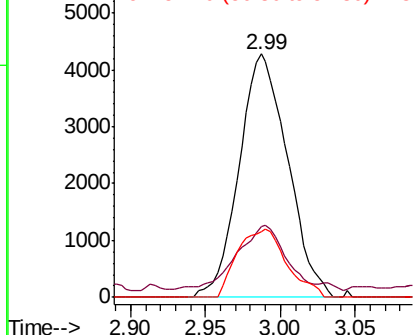
Tgt Ion	Ratio	Lower	Upper
73	100		
43	26.2	16.3	24.5#
57	28.4	18.6	28.0#

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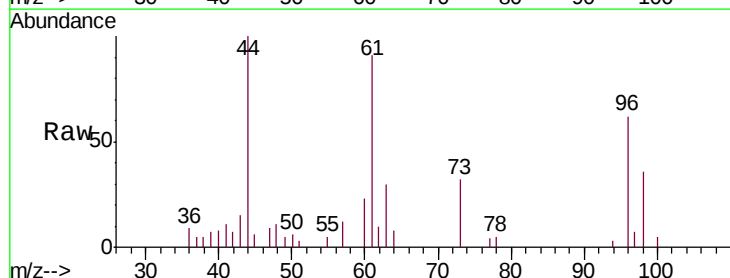


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

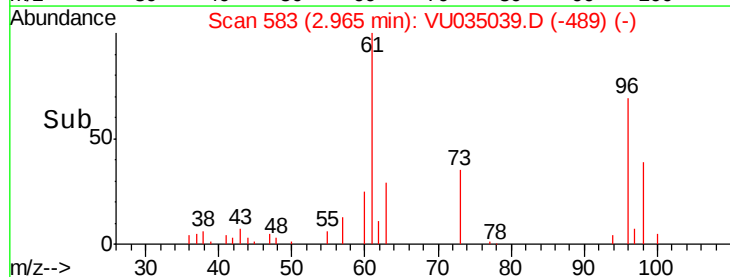
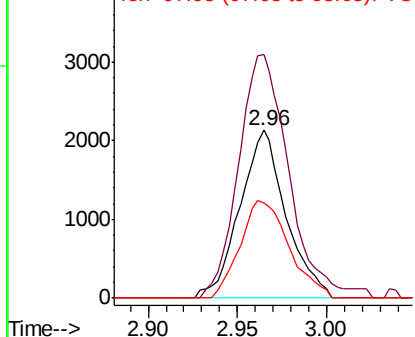


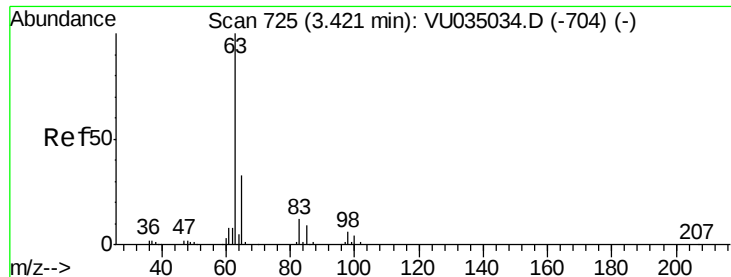
#18
trans-1,2-Dichloroethene
Concen: 0.341 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.1	107.1	198.9
98	56.9	45.4	84.4



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





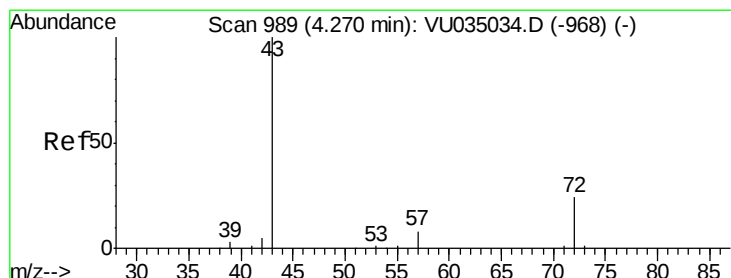
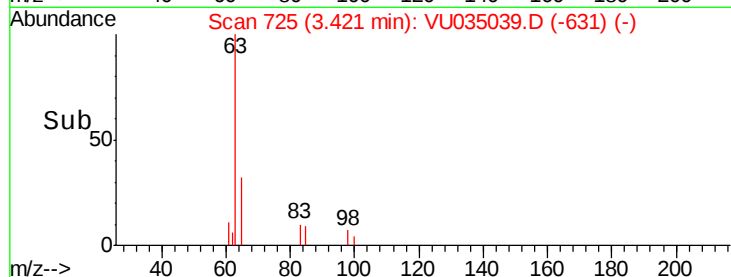
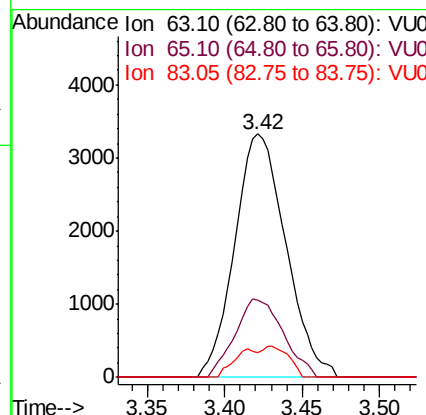
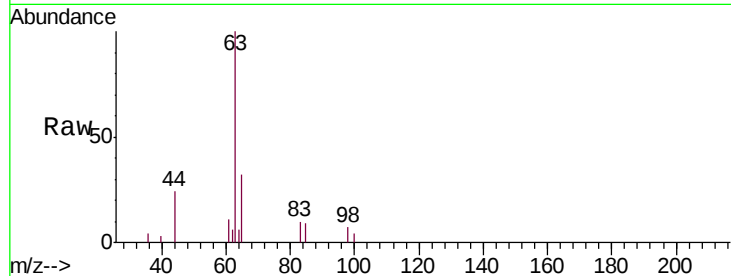
#19
 1,1-Dichloroethane
 Concen: 0.340 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.7	40.3
83	10.1	9.0	16.8

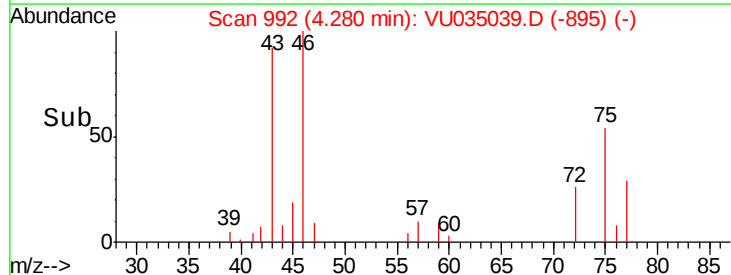
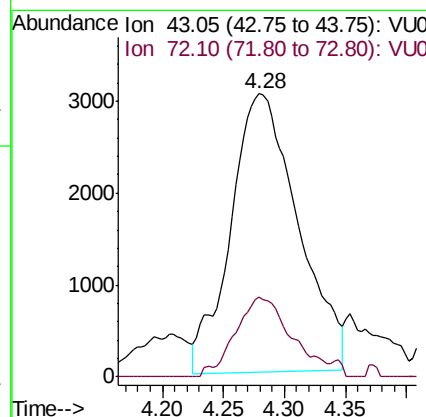
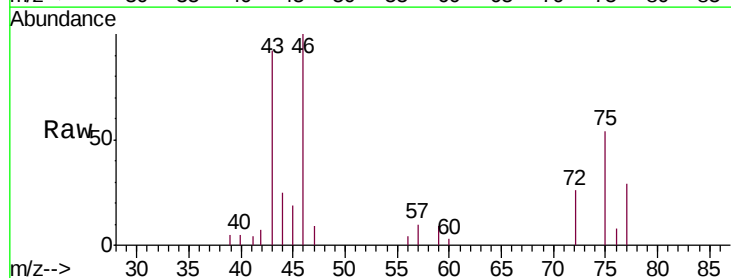
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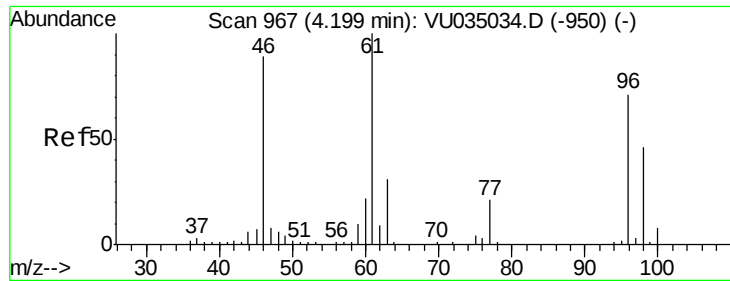
MMDadoda
 10/11/2019 8:32:25 AM



#21
 2-Butanone
 Concen: 3.490 ug/L
 RT: 4.28 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	13.5	40.4





#22

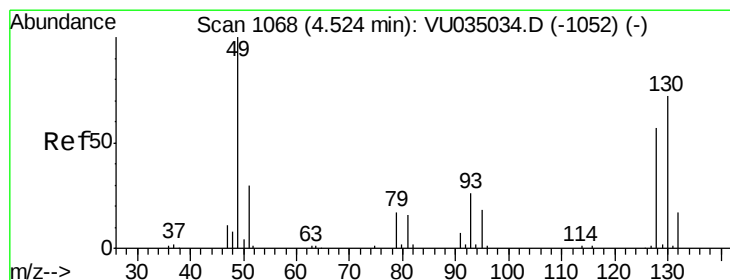
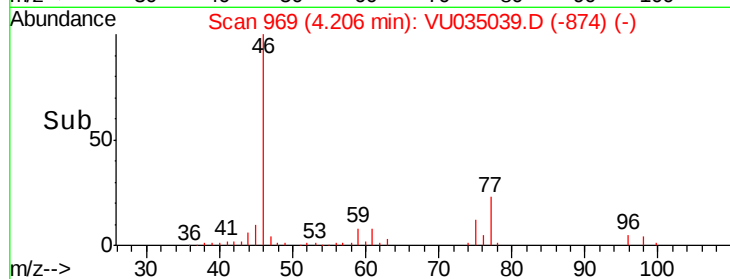
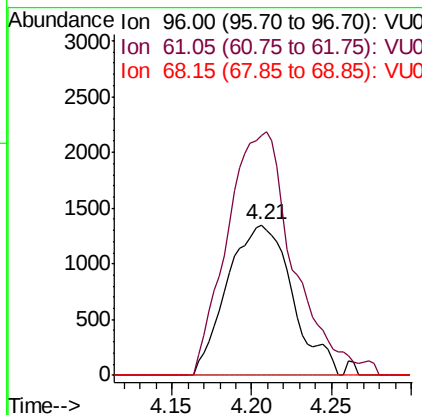
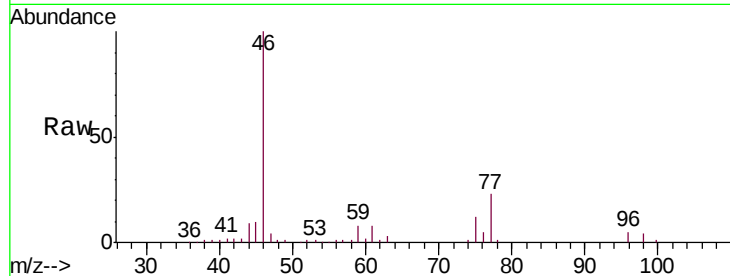
cis-1,2-Dichloroethene
Concen: 0.298 ug/L
RT: 4.21 min Scan# 969
Delta R.T. 0.01 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.9	89.2	165.6
68	0.0	0.0	0.0

Manual Integrations
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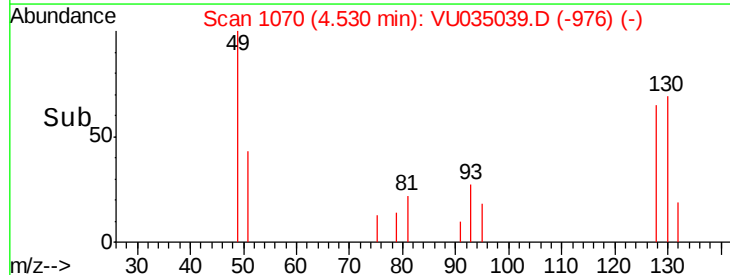
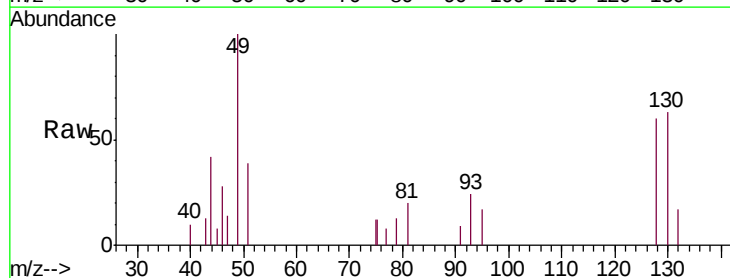
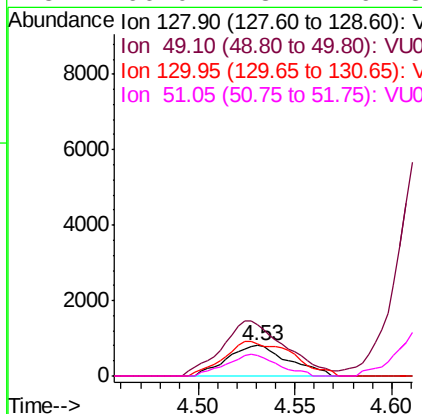
MMDadoda
10/11/2019 8:32:25 AM

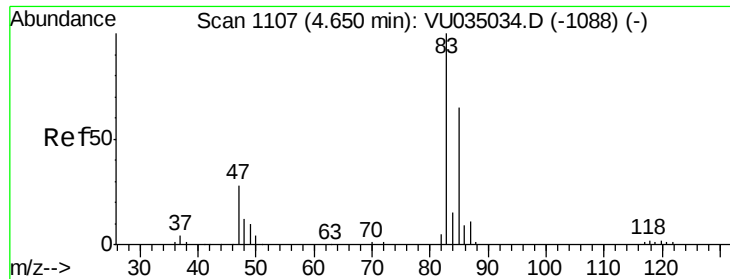


#23

Bromochloromethane
Concen: 0.336 ug/L
RT: 4.53 min Scan# 1070
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
128	100		
49	168.0	110.5	205.3
130	106.0	88.6	164.6
51	66.0	43.2	64.8





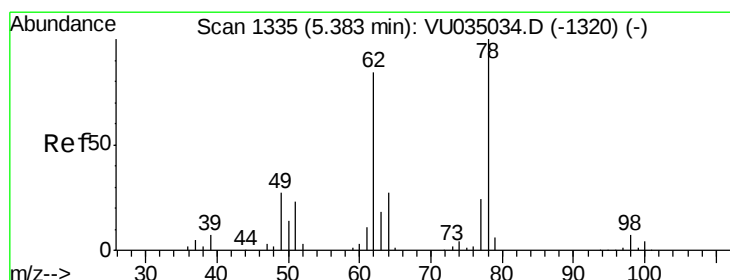
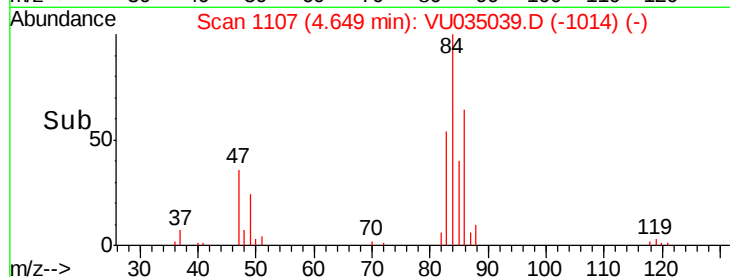
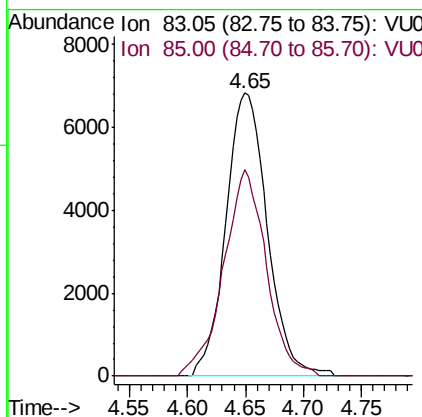
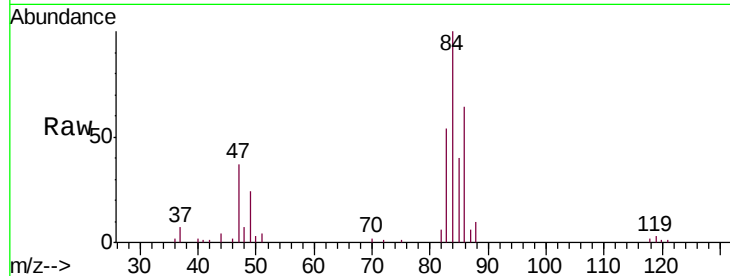
#25
Chloroform
Concen: 0.670 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 83 Resp: 16917
Ion Ratio Lower Upper
83 100
85 72.9 45.4 84.4

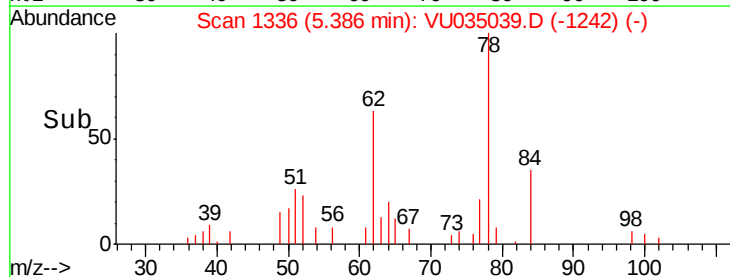
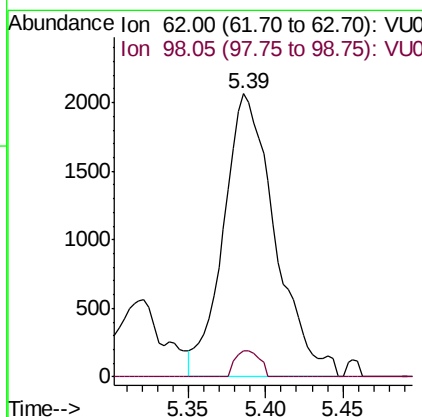
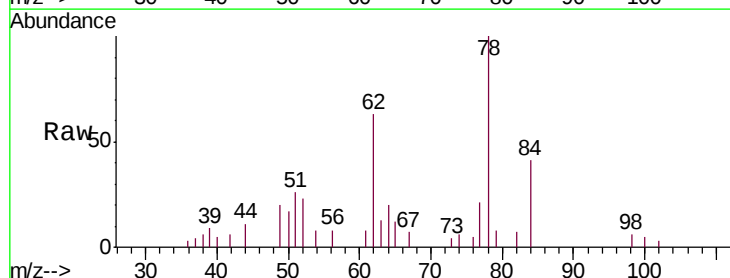
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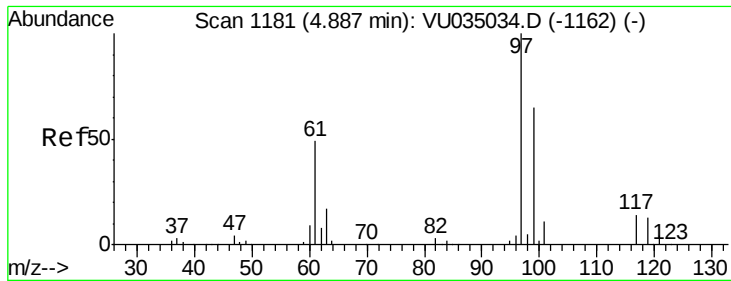
MMDadoda
10/11/2019 8:32:25 AM



#27
1,2-Dichloroethane
Concen: 0.325 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion: 62 Resp: 4793
Ion Ratio Lower Upper
62 100
98 9.3 6.6 10.0





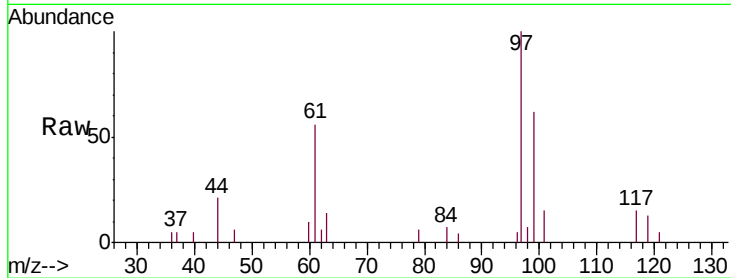
#29
1,1,1-Trichloroethane
Concen: 0.304 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.6	77.4
61	50.1	36.2	54.4

Manual Integrations
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MMDadoda
10/11/2019 8:32:25 AM

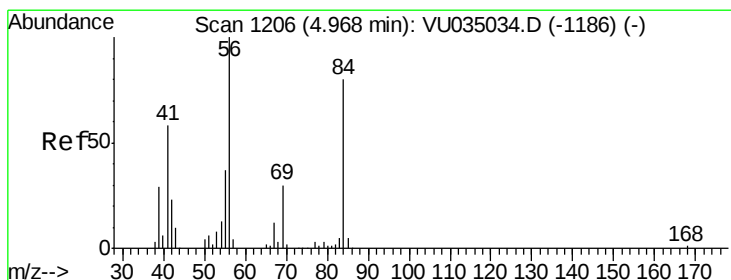
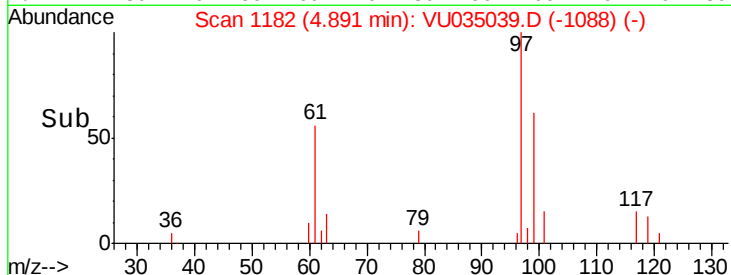
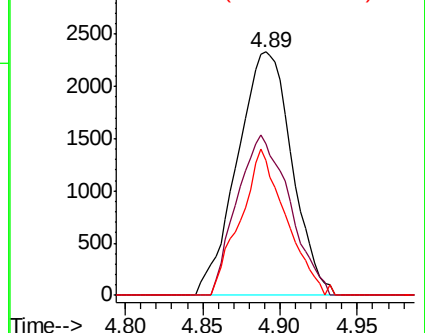


Abundance

Ion 96.95 (96.65 to 97.65): VU035039.D (-1162) (-)

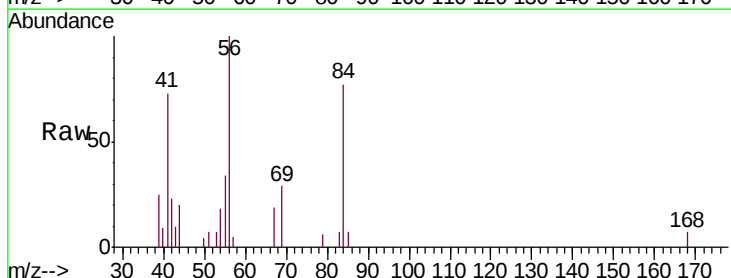
Ion 99.05 (98.75 to 99.75): VU035039.D (-1162) (-)

Ion 61.05 (60.75 to 61.75): VU035039.D (-1162) (-)



#30
Cyclohexane
Concen: 0.298 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.2	23.9	35.9
84	91.0	69.5	104.3

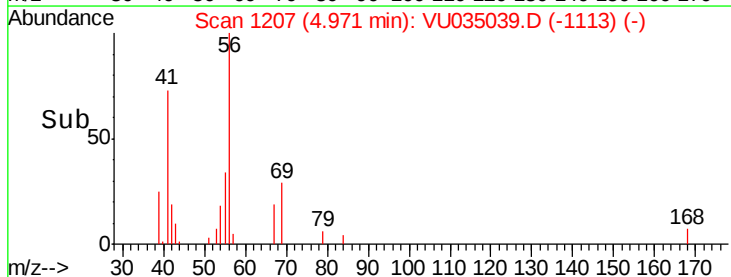
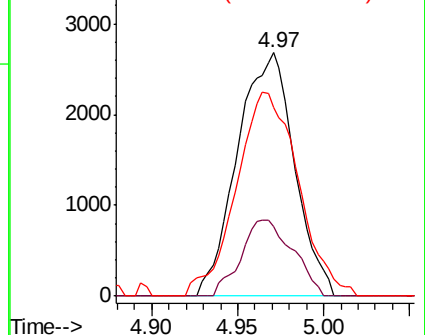


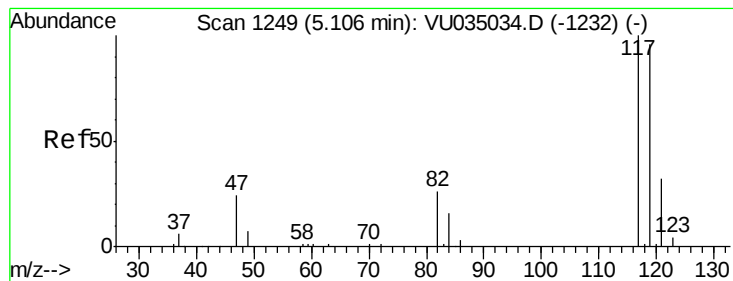
Abundance

Ion 56.10 (55.80 to 56.80): VU035039.D (-1186) (-)

Ion 69.15 (68.85 to 69.85): VU035039.D (-1186) (-)

Ion 84.15 (83.85 to 84.85): VU035039.D (-1186) (-)





#31

Carbon tetrachloride

Concen: 0.302 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion:117 Resp: 4938

Ion Ratio Lower Upper

117 100

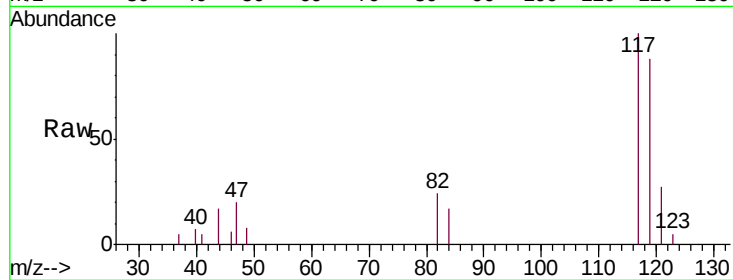
119 91.9 77.5 116.3

Manual Integrations

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11

2500

2000

1500

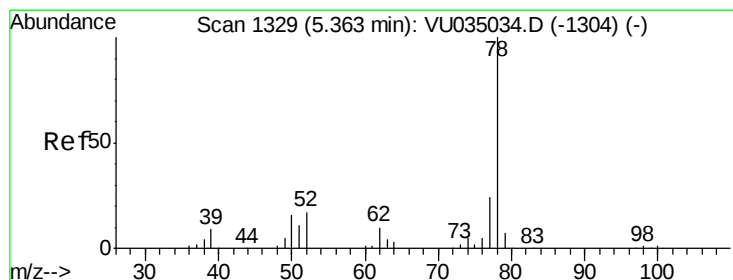
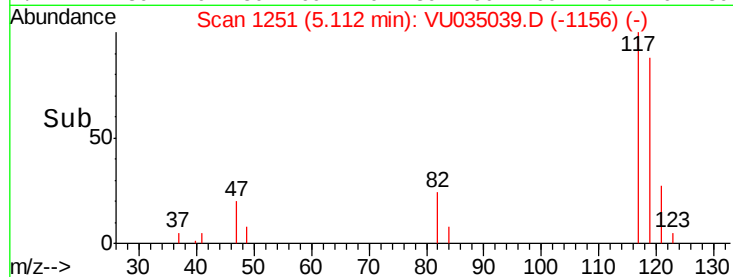
1000

500

0

Time-->

5.05 5.10 5.15



#33

Benzene

Concen: 0.329 ug/L

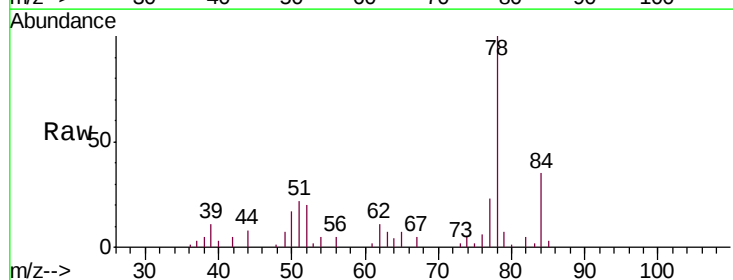
RT: 5.37 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Tgt Ion: 78 Resp: 16610



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.37

8000

6000

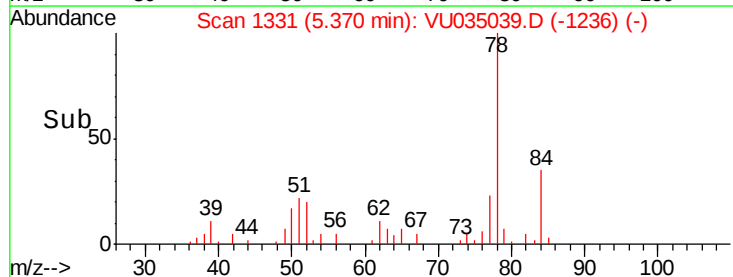
4000

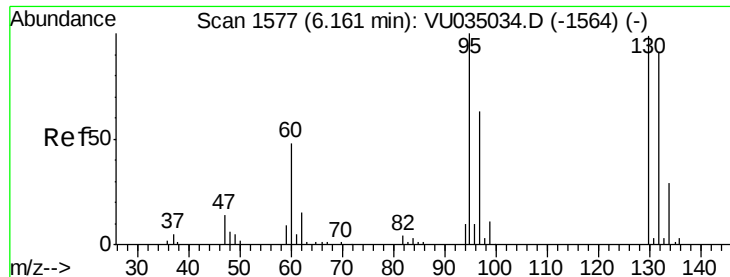
2000

0

Time-->

5.30 5.35 5.40 5.45





#34

Trichloroethene

Concen: 0.287 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 95 Resp: 3745
Ion Ratio Lower Upper

95 100

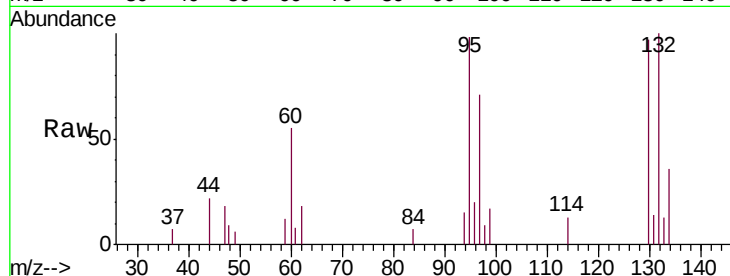
97 72.0 44.5 82.7

132 101.6 66.6 123.8

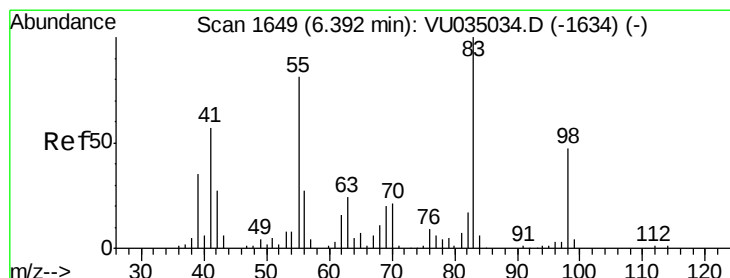
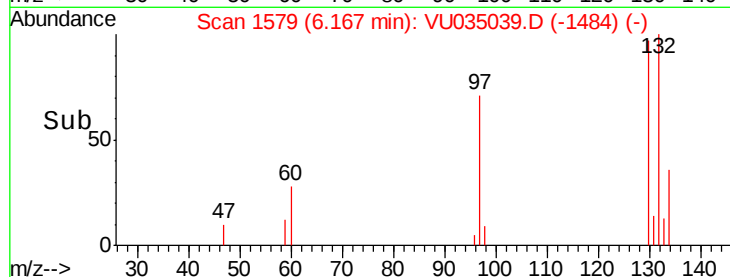
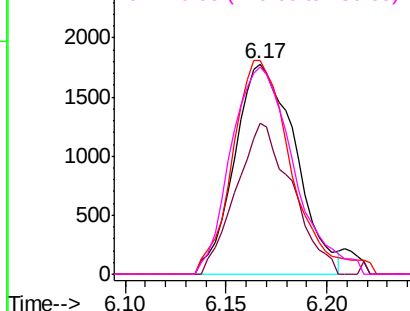
130 98.4 68.9 127.9

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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: 0.303 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU035039.D

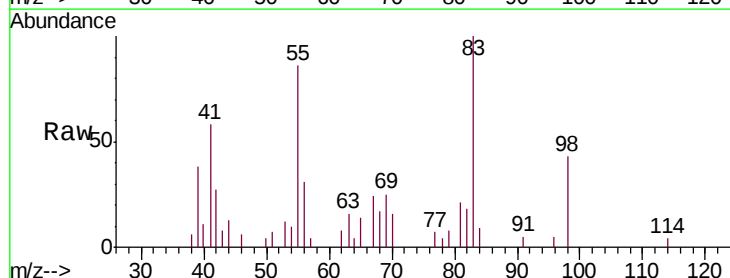
Acq: 10 Oct 2019 11:30

Tgt Ion: 83 Resp: 6388
Ion Ratio Lower Upper

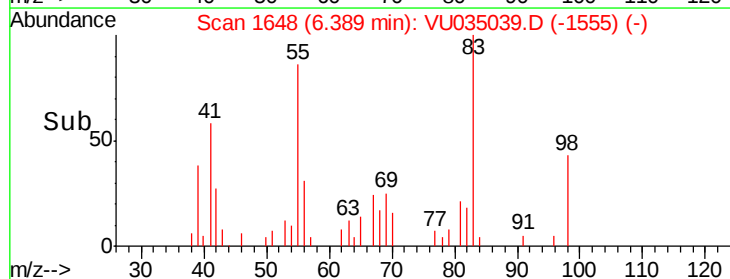
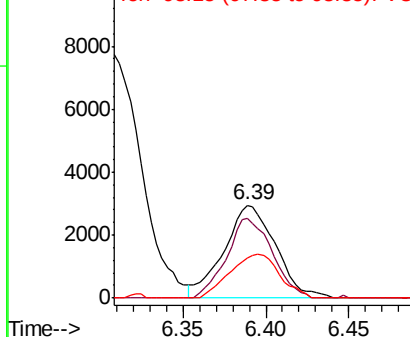
83 100

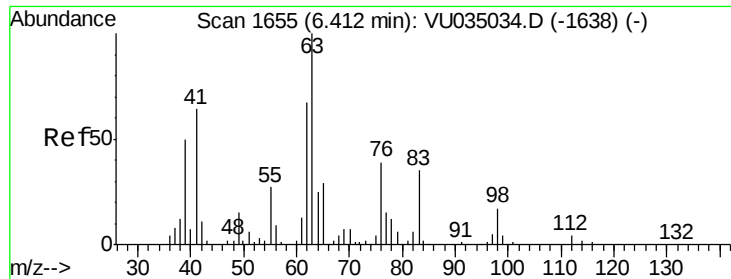
55 75.9 62.6 94.0

98 45.6 36.2 54.2



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





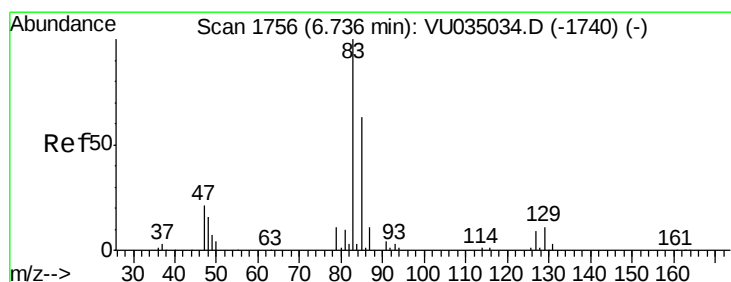
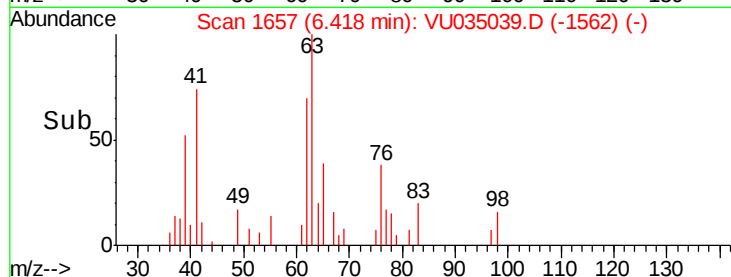
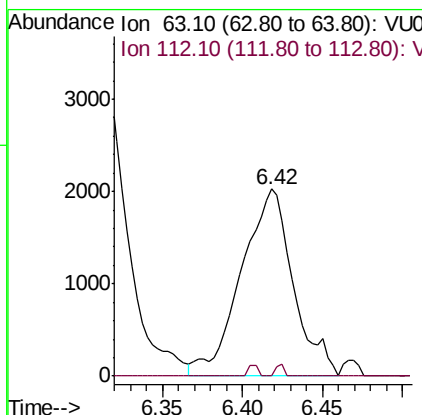
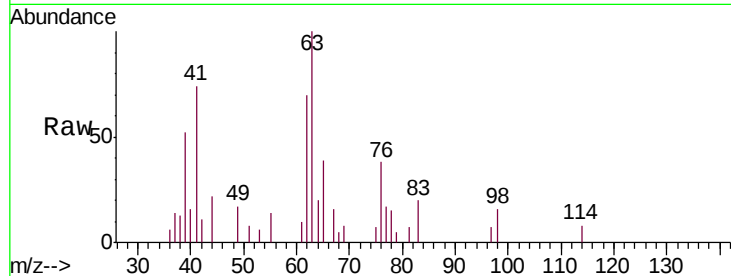
#37
 1,2-Dichloropropane
 Concen: 0.333 ug/L
 RT: 6.42 min Scan# 1657
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion: 63 Resp: 4533
 Ion Ratio Lower Upper
 63 100
 112 1.0 3.1 4.7#

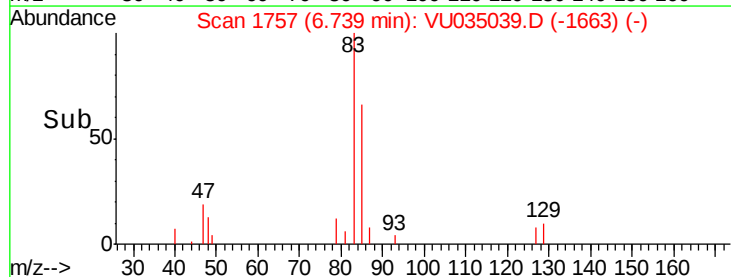
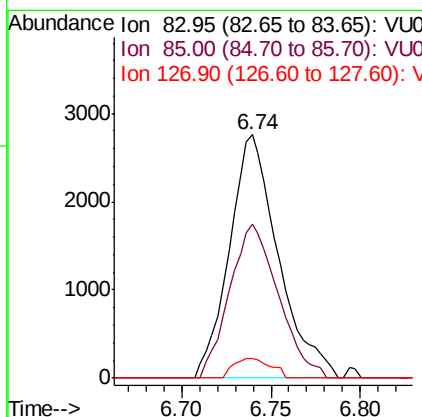
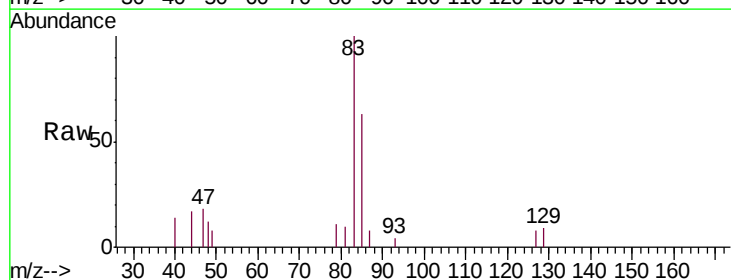
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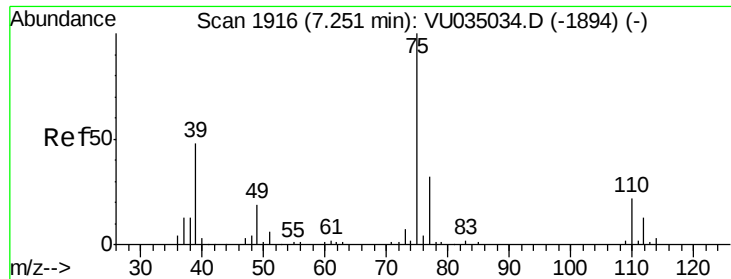
MMDadoda
 10/11/2019 8:32:25 AM



#38
 Bromodichloromethane
 Concen: 0.330 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion: 83 Resp: 5270
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.0 81.8
 127 7.9 7.0 10.4





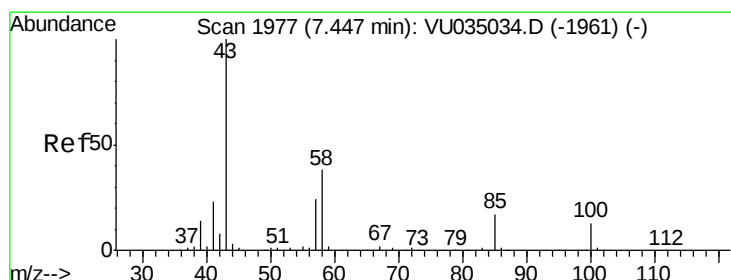
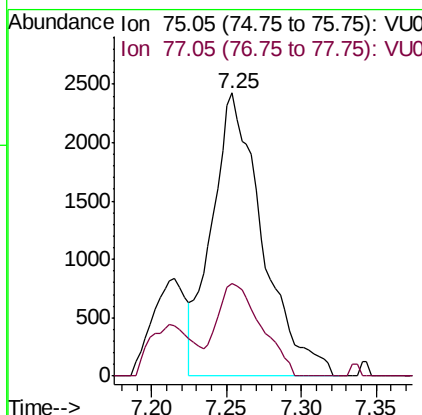
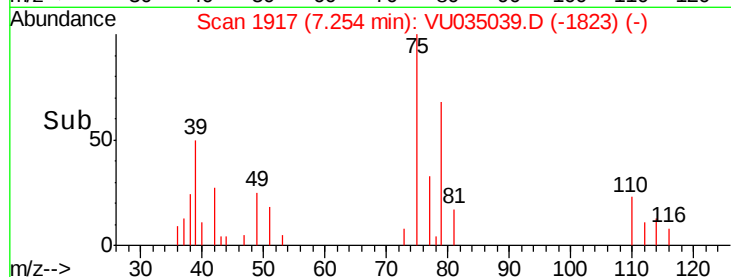
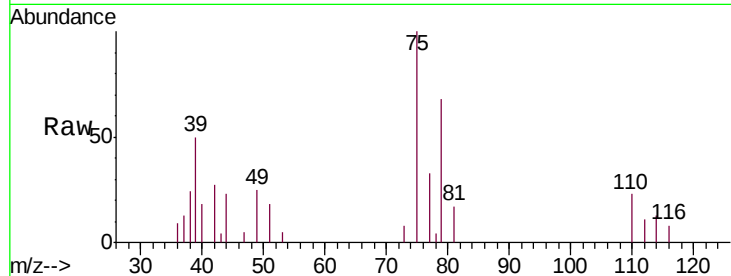
#39
 cis-1,3-Dichloropropene
 Concen: 0.310 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tgt Ion: 75 Resp: 5723
 Ion Ratio Lower Upper
 75 100
 77 32.7 22.1 41.1

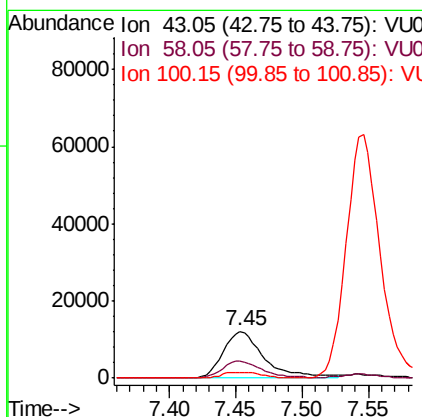
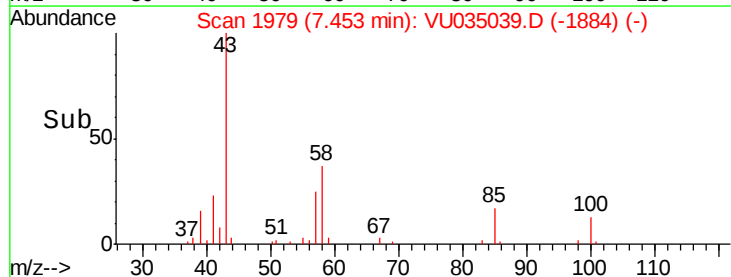
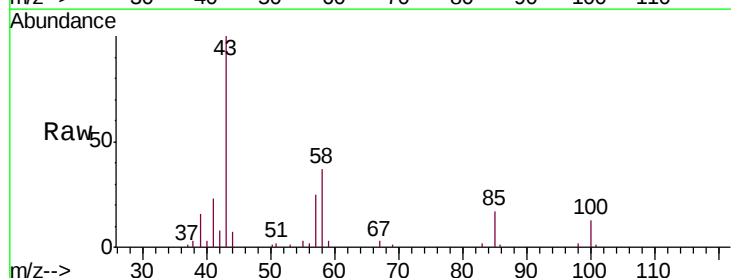
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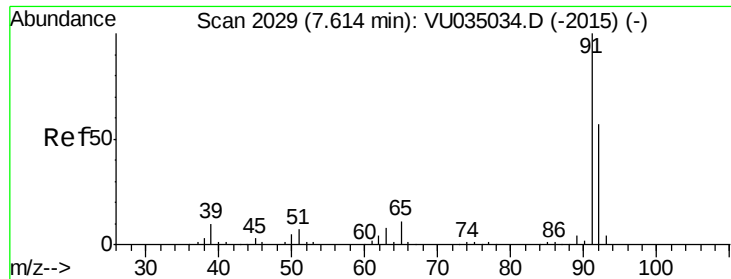
MMDadoda
 10/11/2019 8:32:25 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.013 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion: 43 Resp: 25834
 Ion Ratio Lower Upper
 43 100
 58 36.1 32.4 48.6
 100 0.0 11.9 17.9#





#42

Toluene

Concen: 0.310 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.01 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 91 Resp: 16333

Ion Ratio Lower Upper

91 100

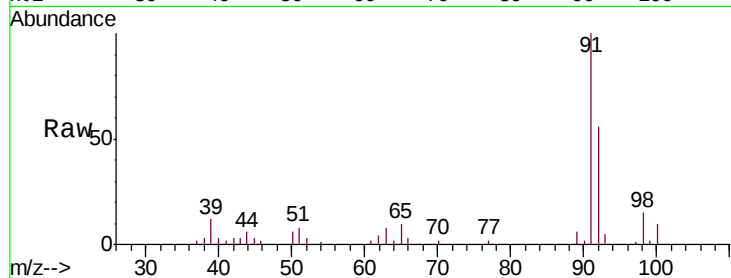
92 56.0 40.0 74.2

Manual Integrations

APPROVED

MMDadoda

10/11/2019 8:32:25 AM



Abundance Ion 91.15 (90.85 to 91.85): VU035039.D (-2031) (-)

Ion 92.15 (91.85 to 92.85): VU035039.D (-2031) (-)

7.62

8000

6000

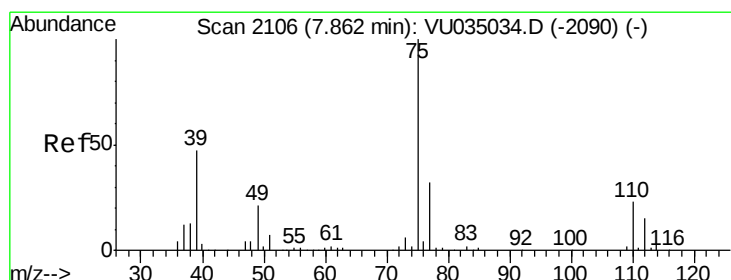
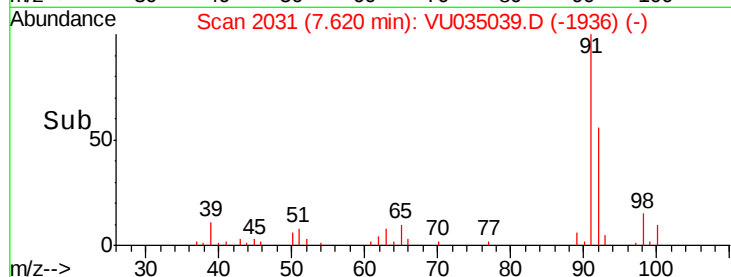
4000

2000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.302 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU035039.D

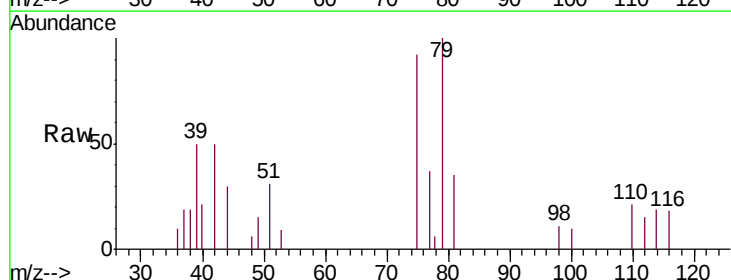
Acq: 10 Oct 2019 11:30

Tgt Ion: 75 Resp: 4314

Ion Ratio Lower Upper

75 100

77 40.6 21.6 40.0#



Abundance Ion 75.05 (74.75 to 75.75): VU035039.D (-2109) (-)

Ion 77.05 (76.75 to 77.75): VU035039.D (-2109) (-)

7.87

1500

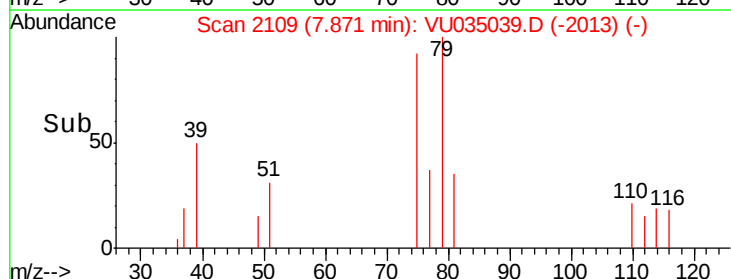
1000

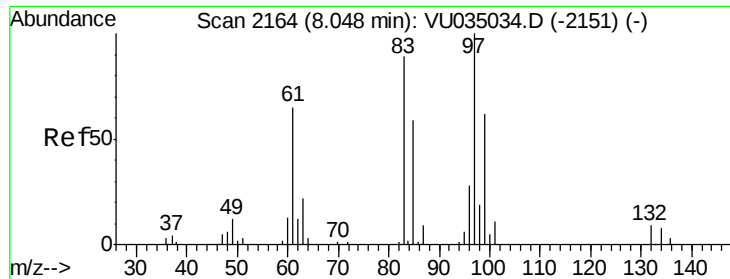
500

0

7.80 7.85 7.90

Time-->





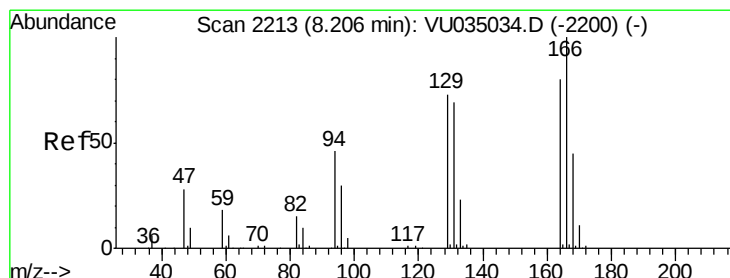
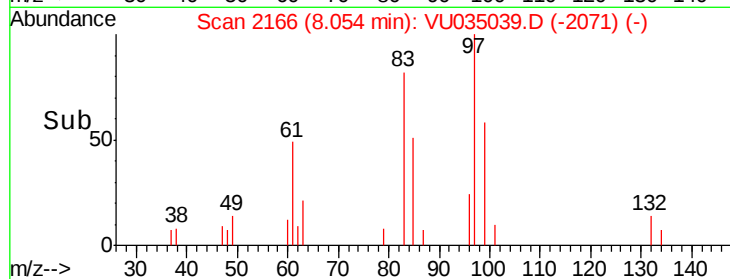
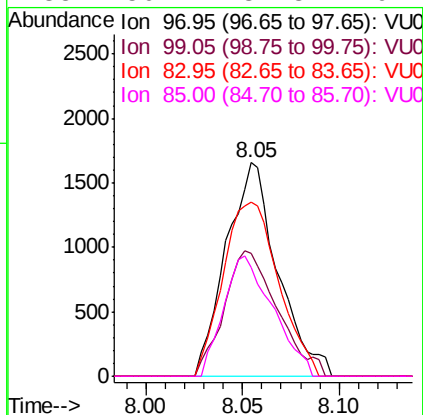
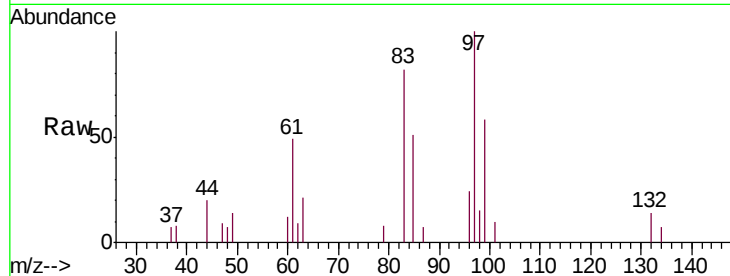
#45
 1,1,2-Trichloroethane
 Concen: 0.339 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:	97	Resp:	3070
Ion	Ratio	Lower	Upper
97	100		
99	57.5	42.3	78.5
83	81.5	58.0	107.6
85	50.7	37.8	70.2

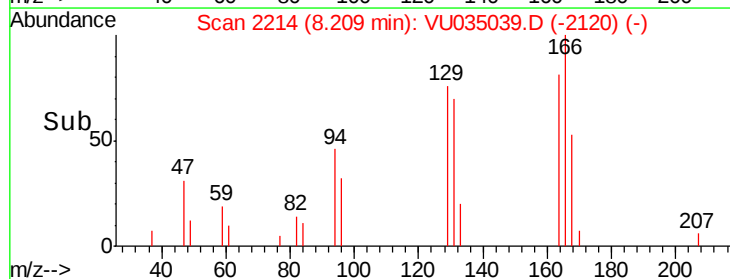
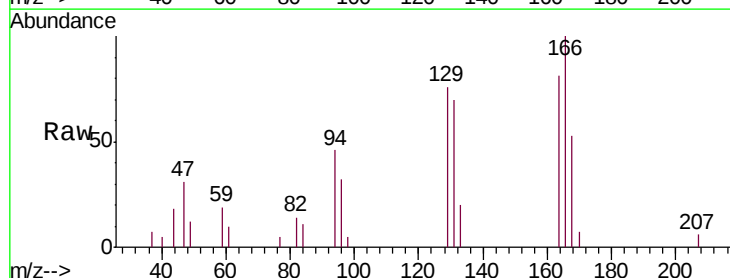
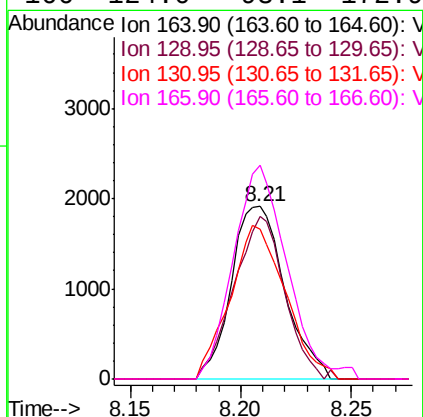
Manual Integrations
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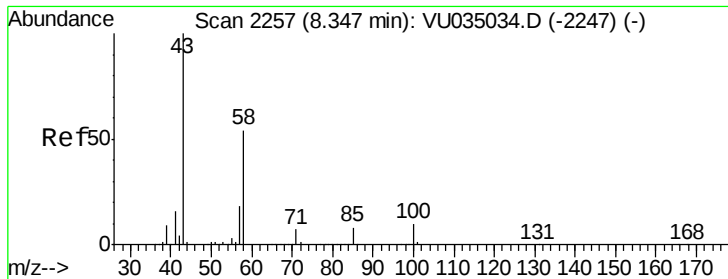
MMDadoda
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#47
 Tetrachloroethene
 Concen: 0.305 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion:	164	Resp:	3220
Ion	Ratio	Lower	Upper
164	100		
129	94.2	68.5	127.1
131	87.2	67.3	124.9
166	124.0	93.1	172.9





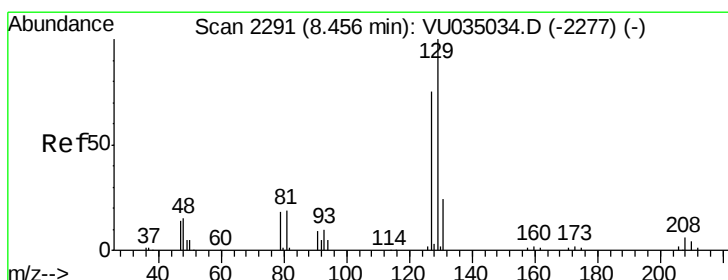
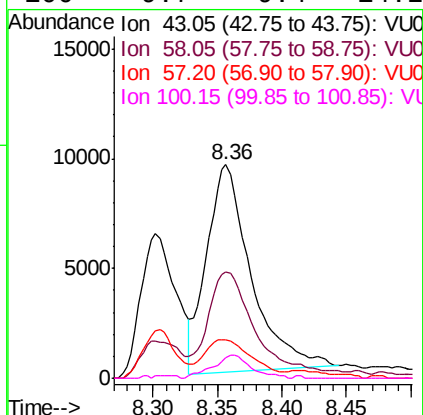
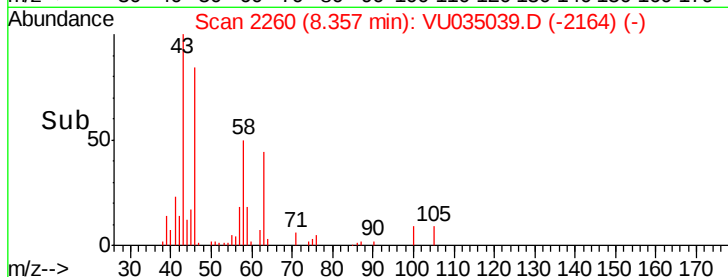
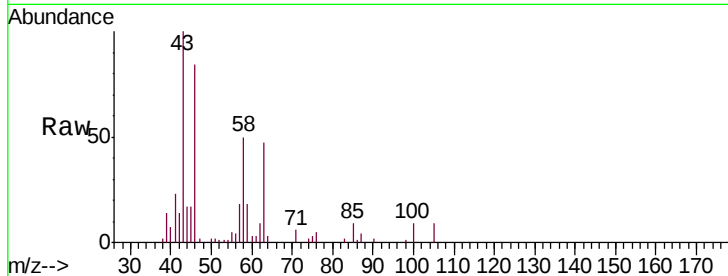
#48
2-Hexanone
Concen: 3.860 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tgt Ion:	43	Resp:	22694
Ion	Ratio	Lower	Upper
43	100		
58	48.7	44.1	66.1
57	16.1	15.8	23.8
100	9.7	9.4	14.2

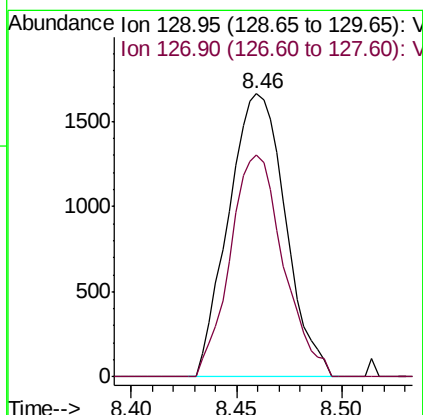
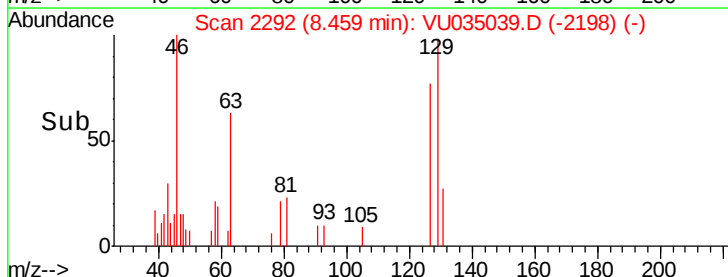
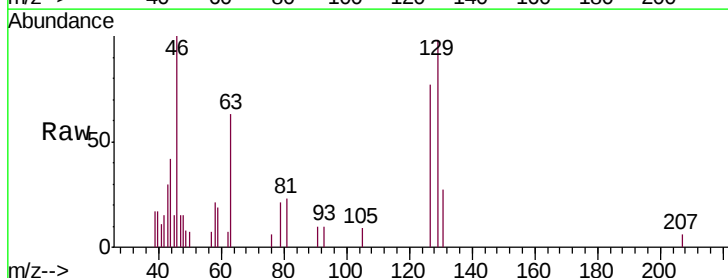
Manual Integrations
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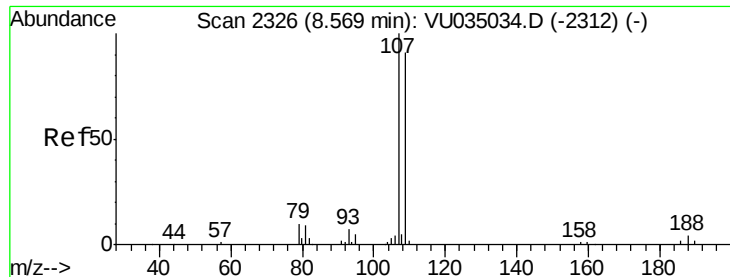
MMDadoda
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#49
Dibromochloromethane
Concen: 0.298 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion:	129	Resp:	3118
Ion	Ratio	Lower	Upper
129	100		
127	78.5	51.9	96.5





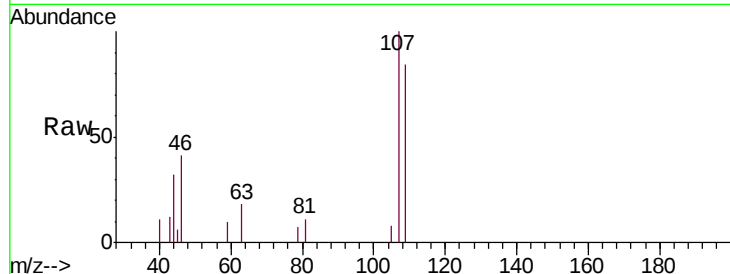
#50
1,2-Dibromoethane
Concen: 0.348 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	3006		
109	84.4	64.8	120.4	
188	0.0	3.0	4.6#	

Manual Integrations
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MMDadoda
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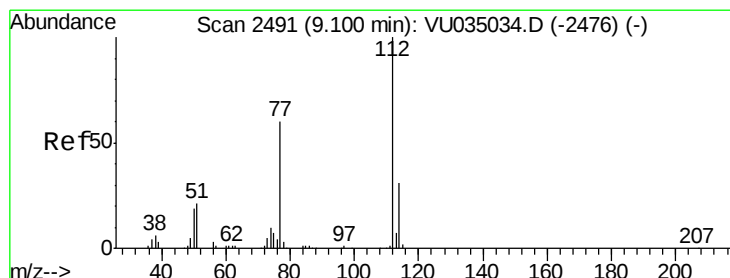
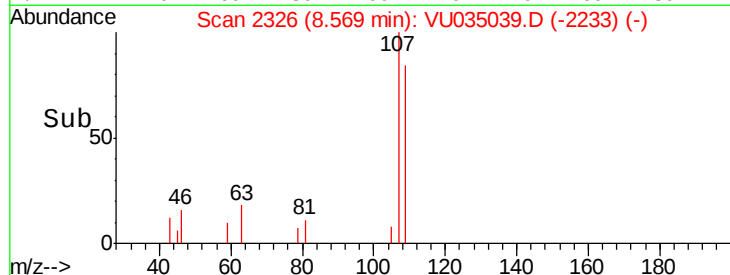
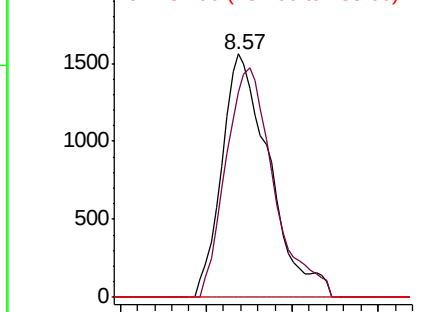


Abundance

Ion 106.95 (106.65 to 107.65): V

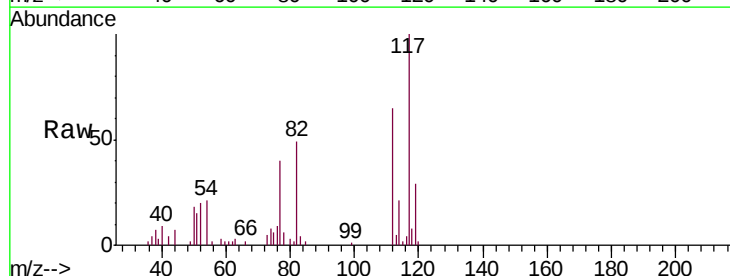
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 0.313 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10678		
114	32.8	22.1	41.1	
77	61.8	46.9	70.3	

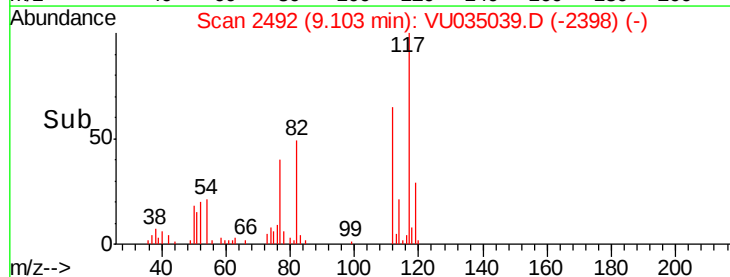
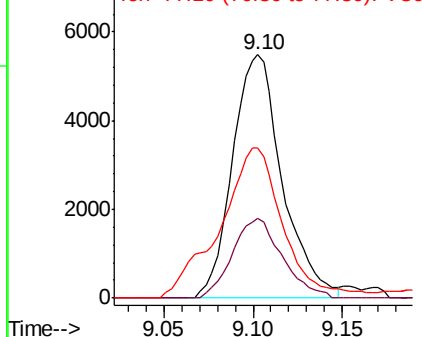


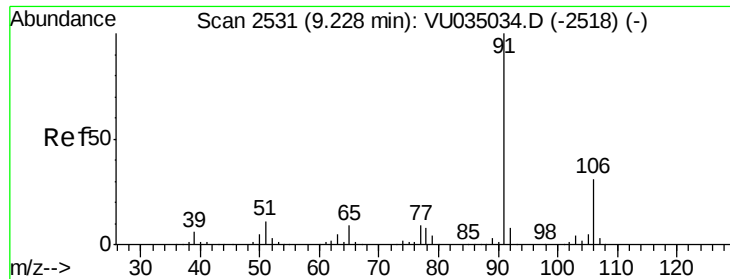
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.294 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.01 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 91 Resp: 17119

Ion Ratio Lower Upper

91 100

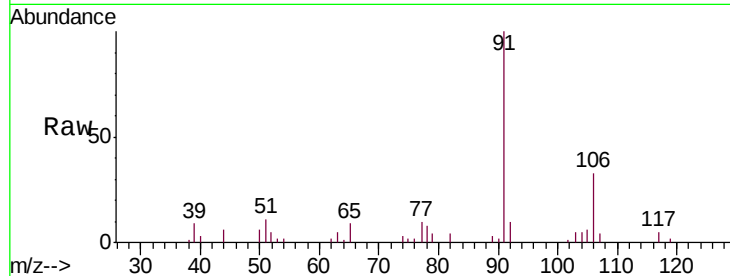
106 33.0 21.6 40.2

Manual Integrations

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10/11/2019 8:32:25 AM



Abundance Ion 91.15 (90.85 to 91.85): VU035039.D (-2438) (-)

Ion 106.15 (105.85 to 106.85): VU035039.D (-2438) (-)

9.23

10000

8000

6000

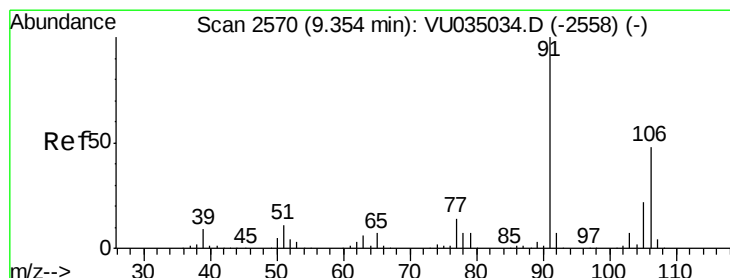
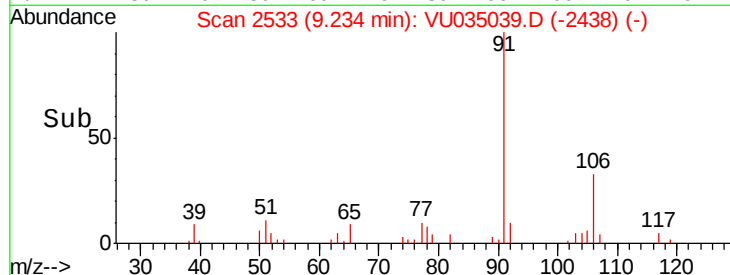
4000

2000

0

Time-->

9.15 9.20 9.25 9.30



#53

m,p-Xylene

Concen: 0.284 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU035039.D

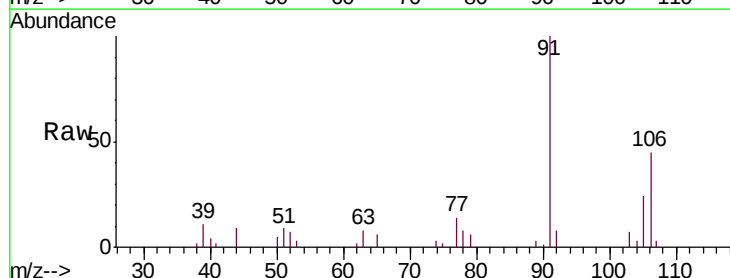
Acq: 10 Oct 2019 11:30

Tgt Ion: 106 Resp: 6115

Ion Ratio Lower Upper

106 100

91 221.4 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU035039.D (-2477) (-)

Ion 91.15 (90.85 to 91.85): VU035039.D (-2477) (-)

9.36

8000

6000

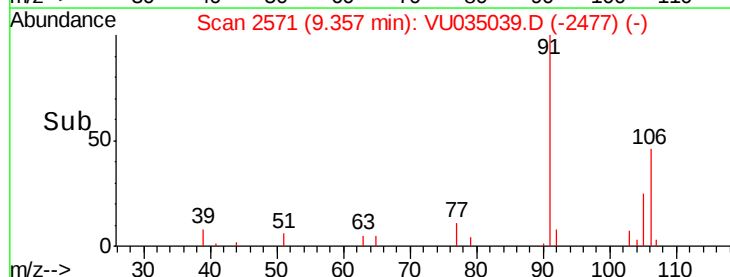
4000

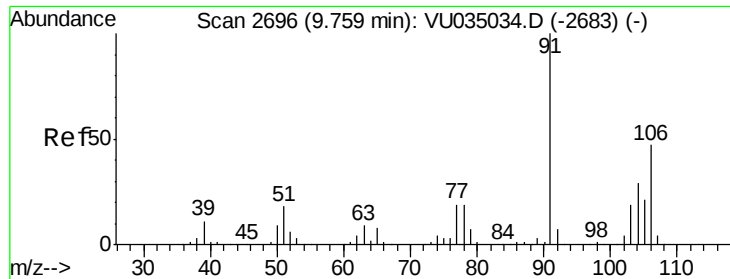
2000

0

Time-->

9.30 9.35 9.40





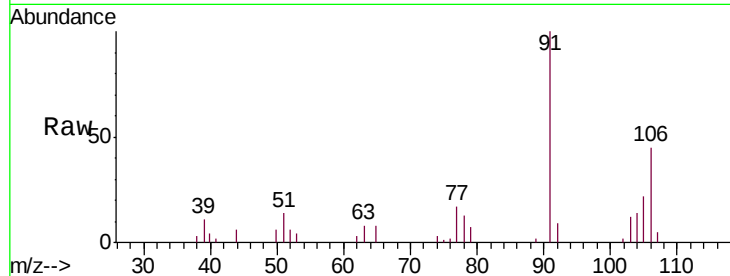
#54
o-Xylene
Concen: 0.286 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampled :
MDL04

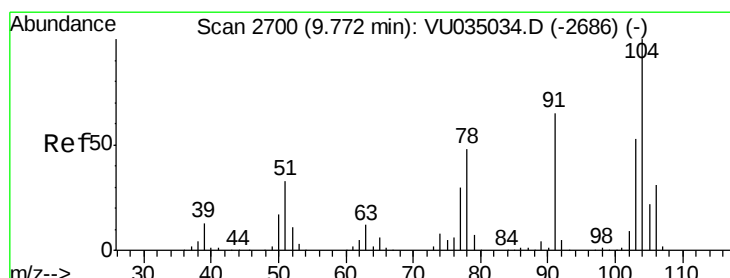
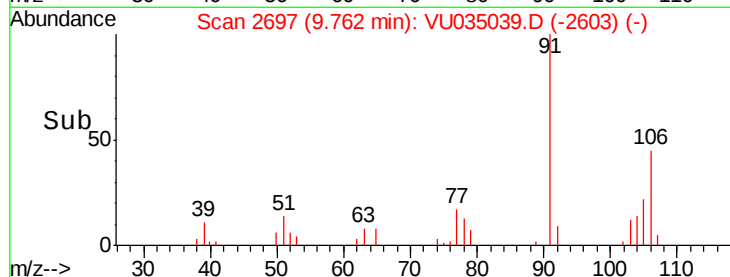
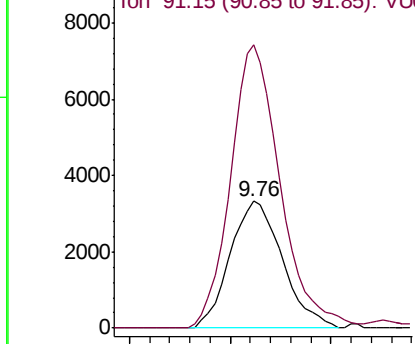
Tgt Ion:106 Resp: 6024
Ion Ratio Lower Upper
106 100
91 223.1 148.5 275.7

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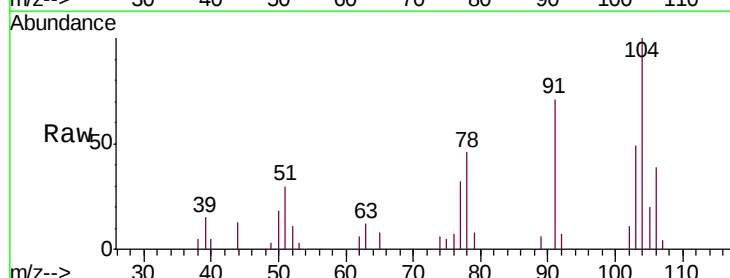


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

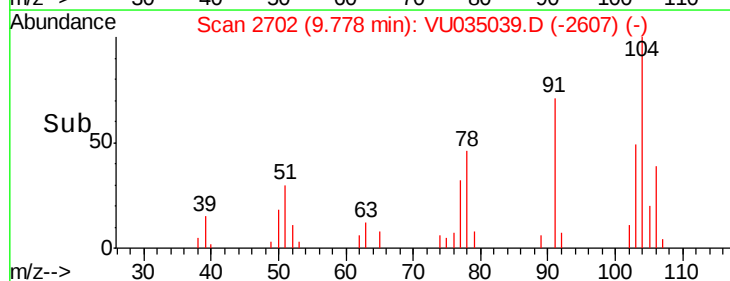
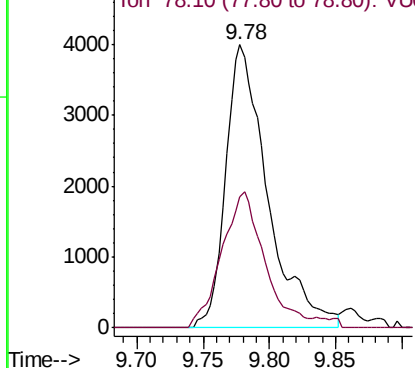


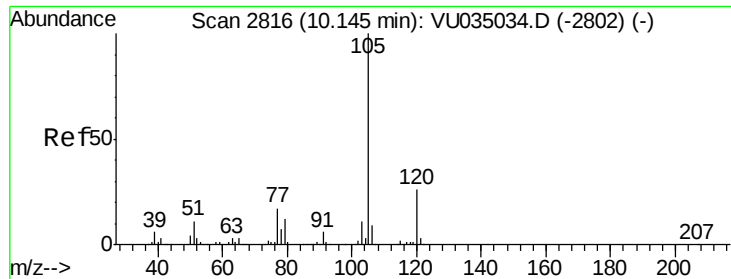
#55
Styrene
Concen: 0.258 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.01 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion:104 Resp: 8796
Ion Ratio Lower Upper
104 100
78 46.4 32.8 60.8



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





#56

Isopropylbenzene

Concen: 0.282 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Instrument :

MSVOA_U

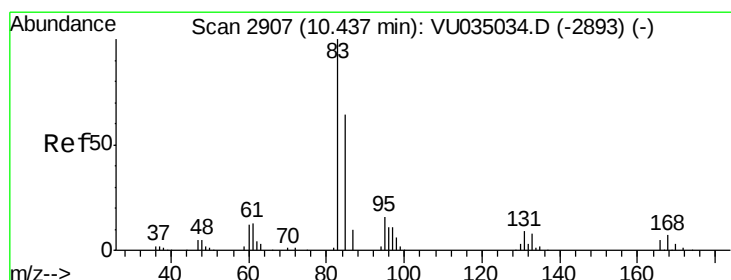
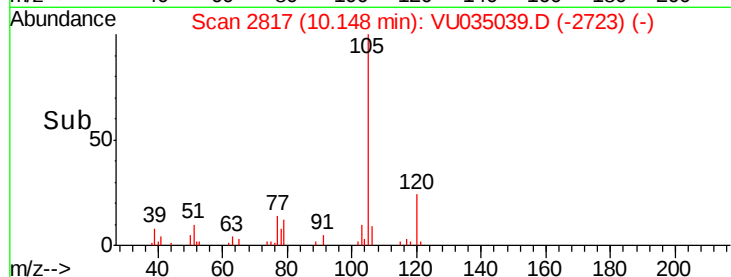
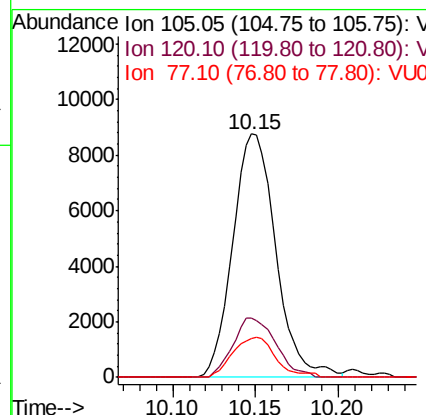
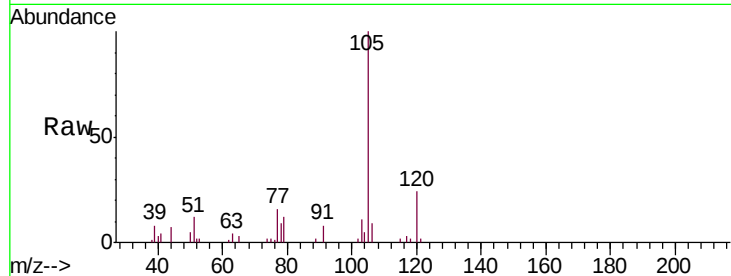
ClientSampleId :

MDL04

Tgt Ion:	105	Resp:	15830
Ion Ratio	Lower	Upper	
105	100		
120	24.2	21.3	31.9
77	16.3	13.0	19.4

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#58

1,1,2,2-Tetrachloroethane

Concen: 0.359 ug/L

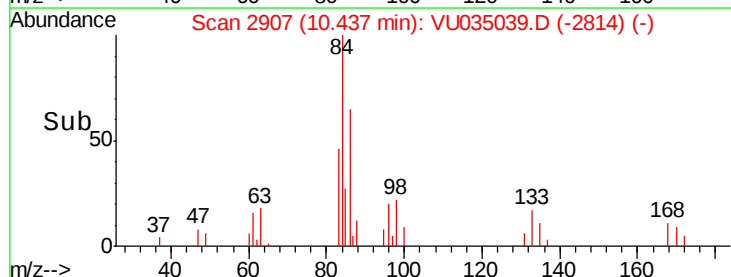
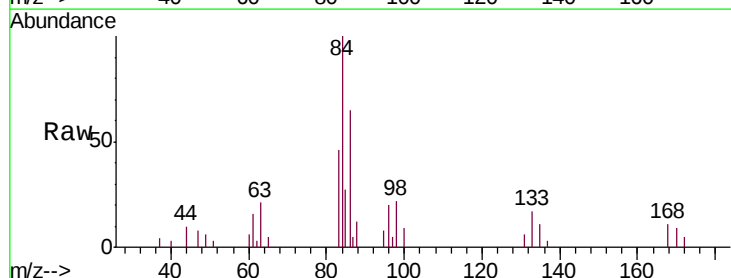
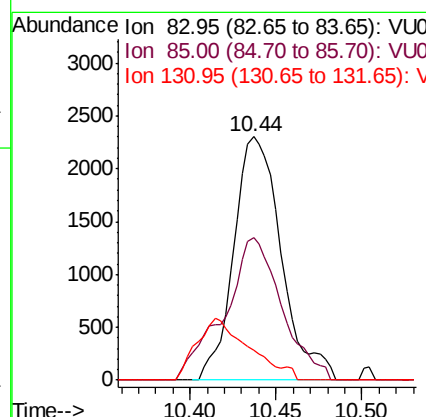
RT: 10.44 min Scan# 2907

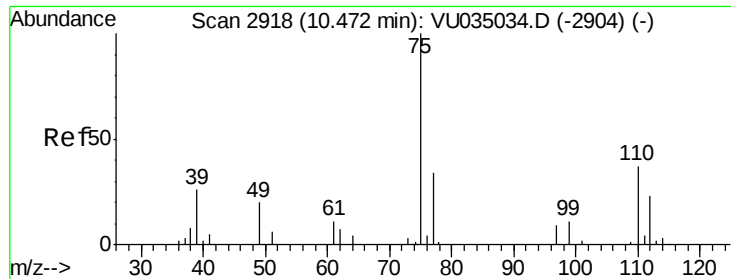
Delta R.T. 0.00 min

Lab File: VU035039.D

Acq: 10 Oct 2019 11:30

Tgt Ion:	83	Resp:	4416
Ion Ratio	Lower	Upper	
83	100		
85	58.8	44.6	82.8
131	12.4	7.4	11.2#





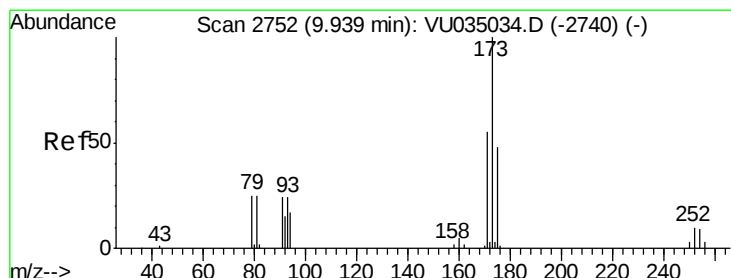
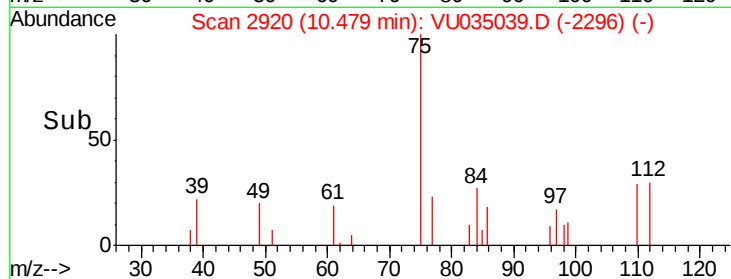
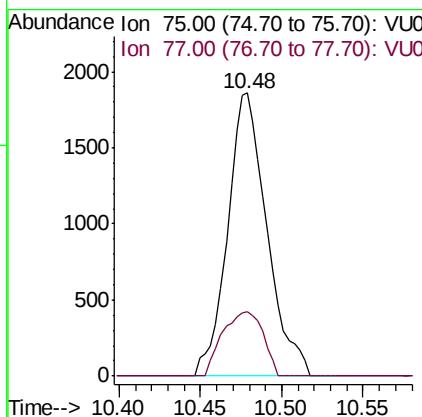
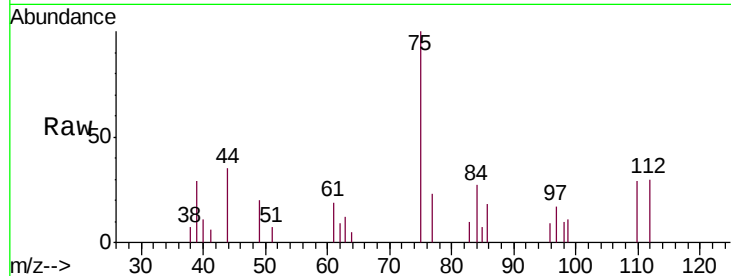
#59
 1,2,3-Trichloropropane
 Concen: 0.355 ug/L m
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion: 75 Resp: 3133
 Ion Ratio Lower Upper
 75 100
 77 108.4 26.5 39.7#

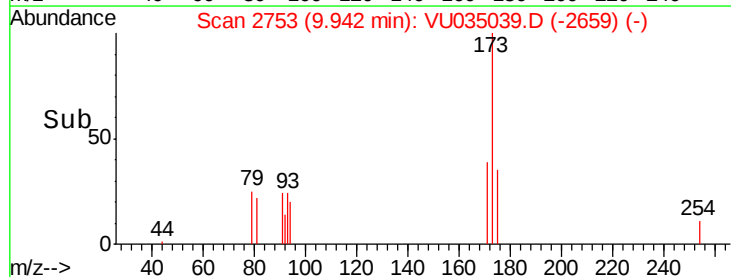
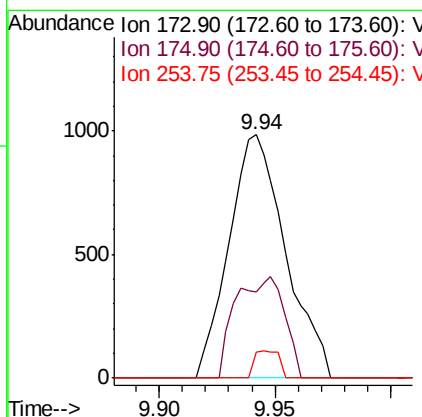
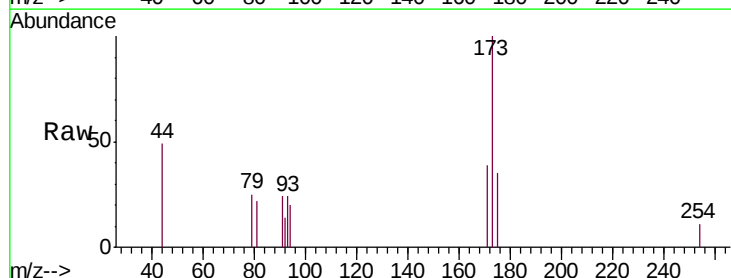
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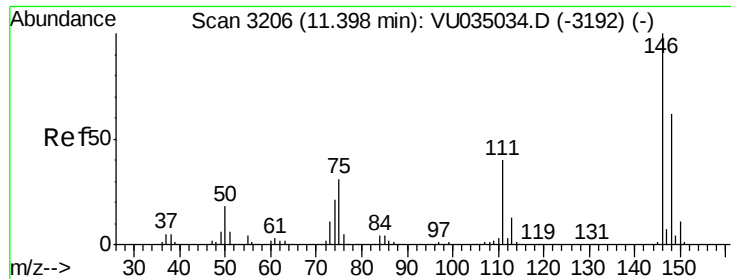
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#61
 Bromoform
 Concen: 0.339 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion: 173 Resp: 1668
 Ion Ratio Lower Upper
 173 100
 175 35.9 37.2 55.8#
 254 4.9 6.6 9.8#





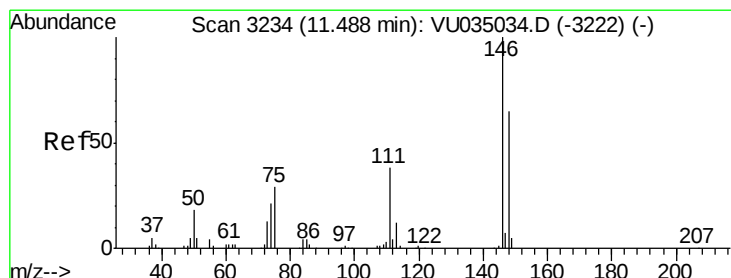
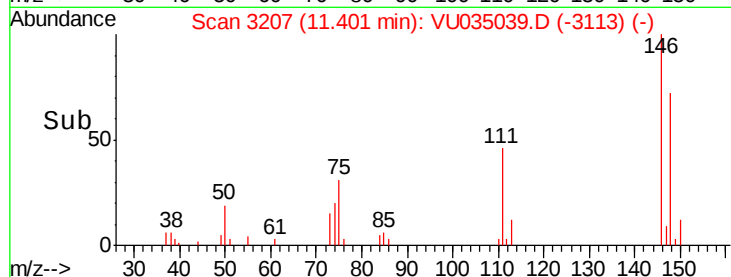
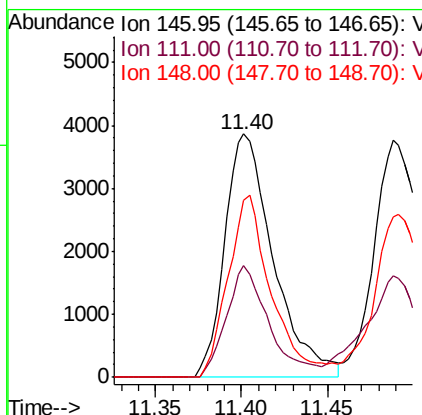
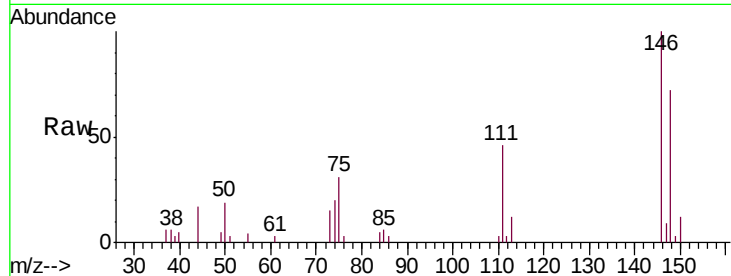
#62
 1,3-Dichlorobenzene
 Concen: 0.344 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	28.6	53.2
148	72.5	45.0	83.6

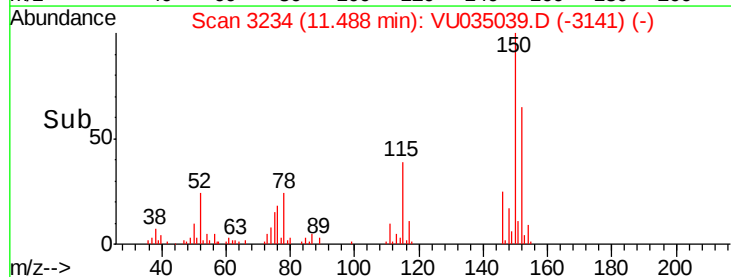
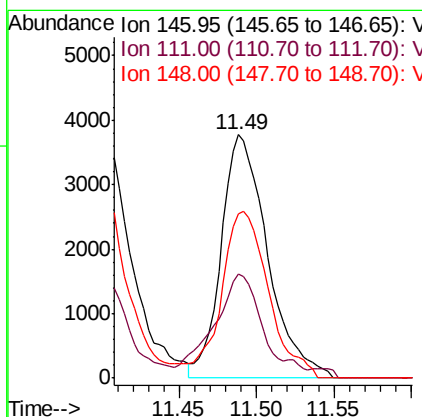
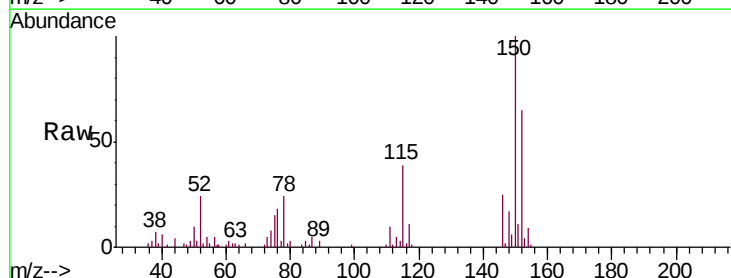
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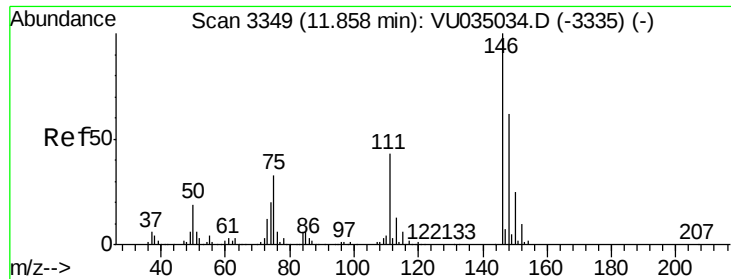
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#63
 1,4-Dichlorobenzene
 Concen: 0.352 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	27.9	51.7
148	67.2	44.1	81.9





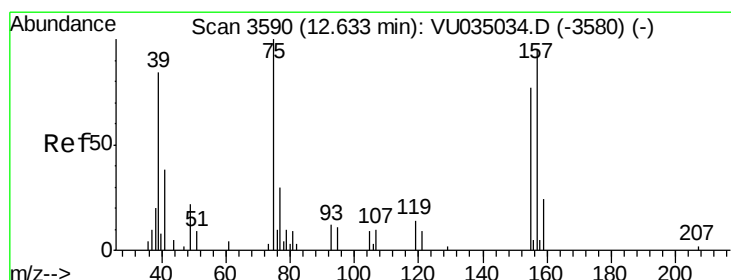
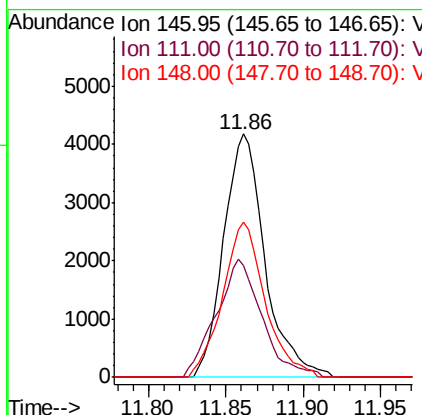
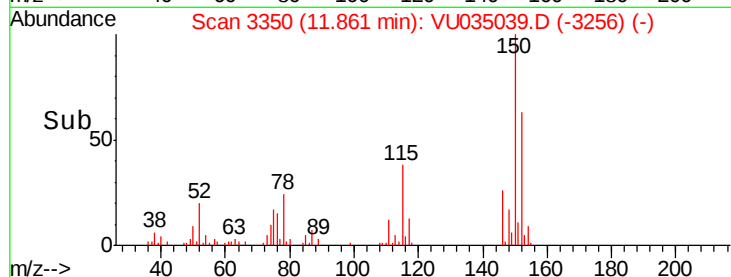
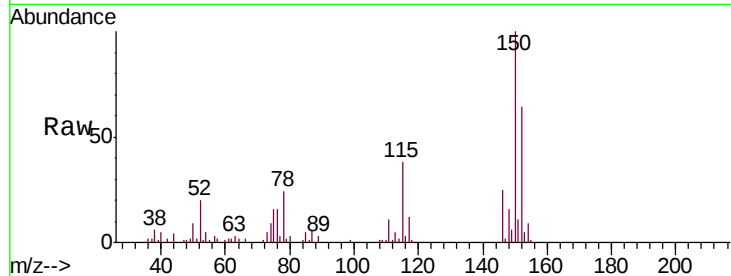
#65
 1,2-Dichlorobenzene
 Concen: 0.363 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	34.2	51.4
148	64.0	52.0	78.0

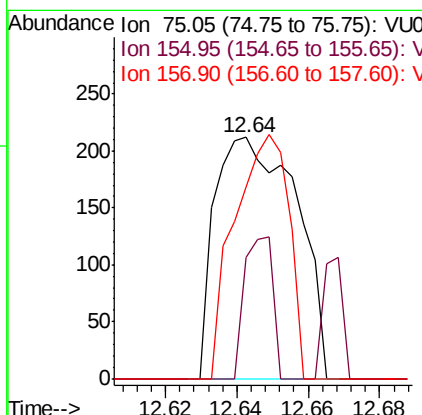
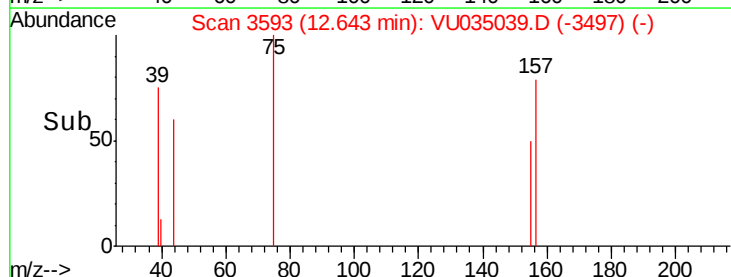
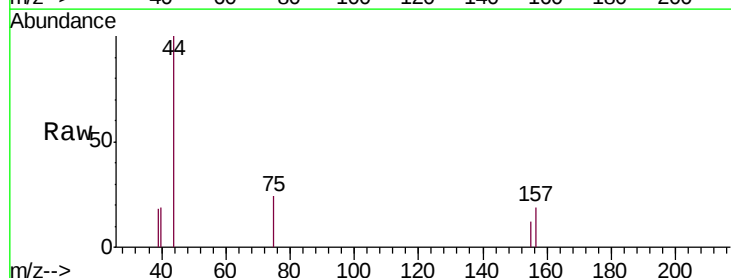
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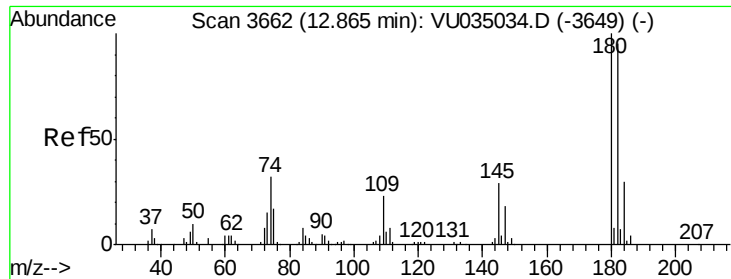
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.247 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	50.5	67.1	100.7#
157	79.2	83.7	125.5#





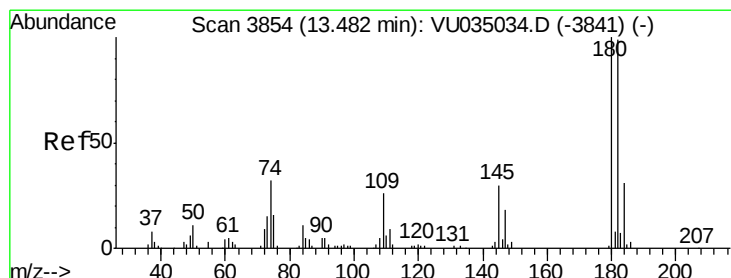
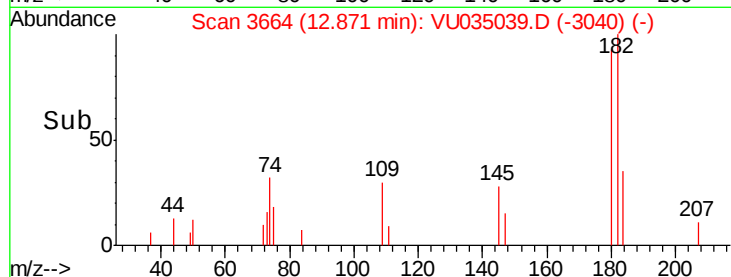
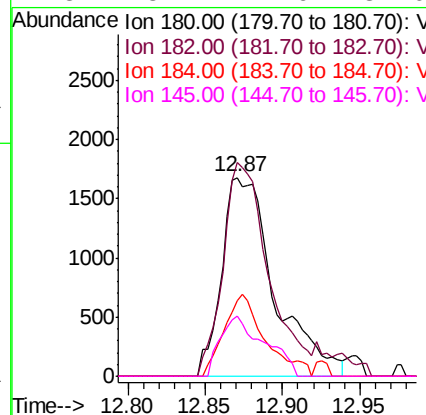
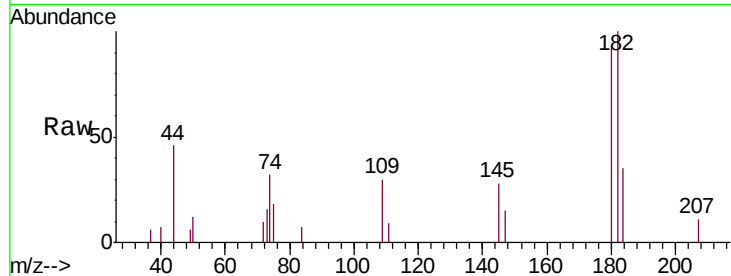
#67
 1,3,5-Trichlorobenzene
 Concen: 0.267 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.1	76.0	114.0
184	32.0	24.2	36.2
145	25.4	24.6	37.0

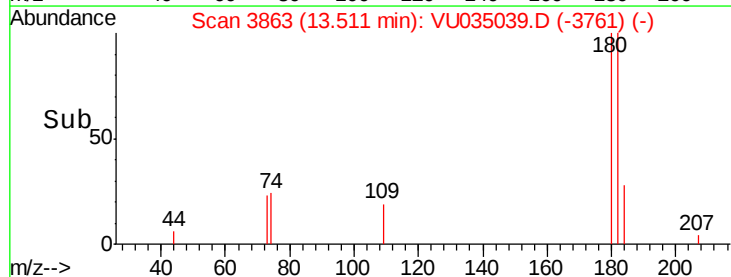
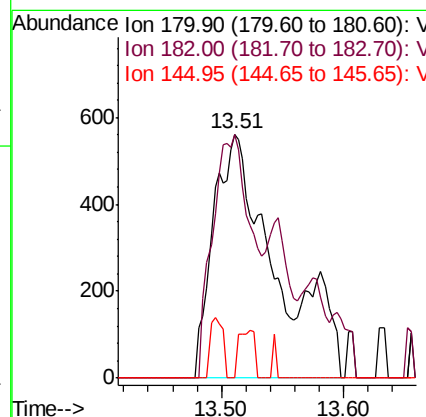
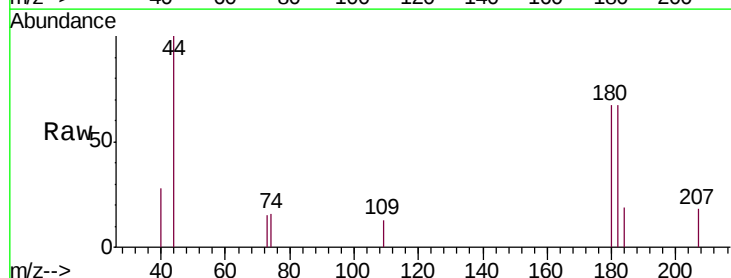
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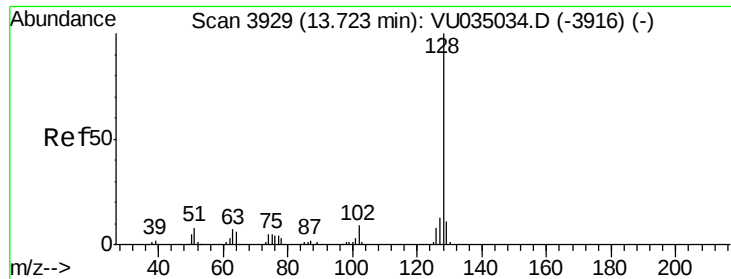
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#68
 1,2,4-trichlorobenzene
 Concen: 0.178 ug/L m
 RT: 13.51 min Scan# 3863
 Delta R.T. 0.03 min
 Lab File: VU035039.D
 Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	61.9	77.3	115.9#
145	5.0	24.5	36.7#





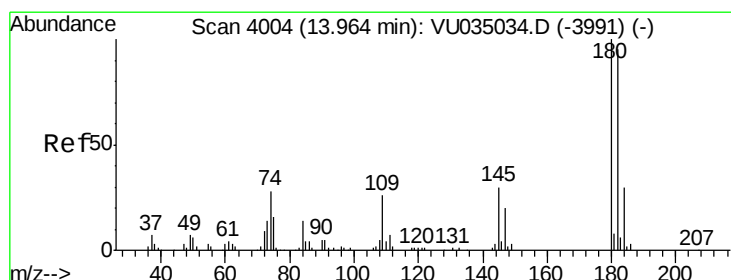
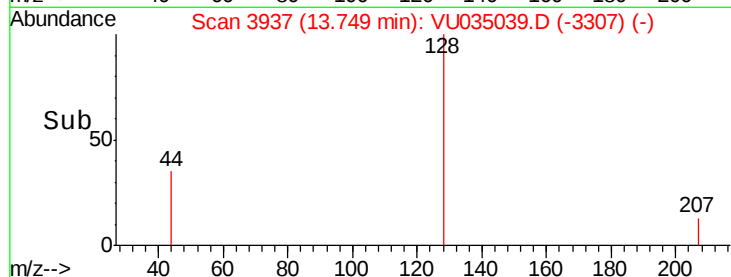
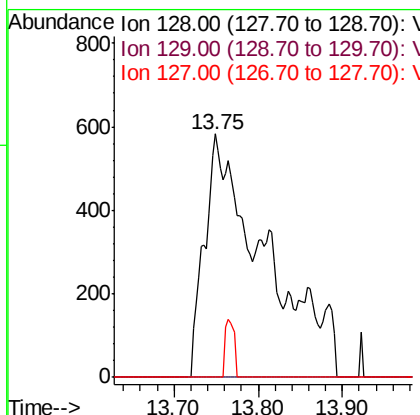
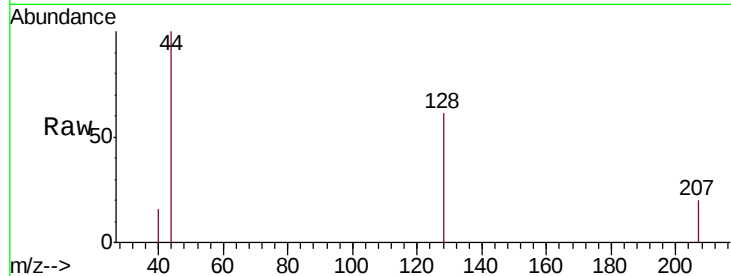
#69
Naphthalene
Concen: 0.168 ug/L m
RT: 13.75 min Scan# 3937
Delta R.T. 0.03 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.7	13.1#
127	3.3	10.6	15.8#

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#70
1,2,3-Trichlorobenzene
Concen: 0.223 ug/L m
RT: 13.98 min Scan# 4009
Delta R.T. 0.02 min
Lab File: VU035039.D
Acq: 10 Oct 2019 11:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.9	77.0	115.4
145	14.3	25.9	38.9#

