

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072919\
 Data File : VU033476.D
 Acq On : 29 Jul 2019 18:28
 Operator : JC/SP
 Sample : MDL02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 7/30/2019 3:01:02 PM

Quant Time: Jul 30 04:35:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 30 04:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	292920	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	297666	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	135065	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	129422	48.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.32%
7) Chloroethane-d5	1.67	69	111177	50.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.18%
11) 1,1-Dichloroethene-d2	2.25	63	172110	35.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.76%
21) 2-Butanone-d5	4.15	46	147069	96.49	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.49%
24) Chloroform-d	4.62	84	188419	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.66%
26) 1,2-Dichloroethane-d4	5.29	65	129827	50.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.10%
32) Benzene-d6	5.32	84	401964	50.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.62%
36) 1,2-Dichloropropane-d6	6.31	67	126747	51.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.26%
41) Toluene-d8	7.55	98	365245	48.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.24%
43) trans-1,3-Dichloropropene-	7.83	79	57041	47.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.18%
47) 2-Hexanone-d5	8.29	63	106063	103.01	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.01%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	187034	49.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.34%
66) 1,2-Dichlorobenzene-d4	11.85	152	138619	53.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	7692	2.632	ug/L	98
3) Chloromethane	1.32	50	7988	2.738	ug/L	97
5) Vinyl chloride	1.40	62	9199	2.757	ug/L #	71
6) Bromomethane	1.62	94	5944	2.549	ug/L	94
8) Chloroethane	1.69	64	5775	2.821	ug/L	100
9) Trichlorofluoromethane	1.87	101	11944	2.729	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7097	3.227	ug/L	85
12) 1,1-Dichloroethene	2.27	96	6643	3.100	ug/L #	1
13) Acetone	2.31	43	7319	4.845	ug/L	99
14) Carbon disulfide	2.46	76	16276	2.549	ug/L	97
15) Methyl Acetate	2.60	43	6345	2.619	ug/L	96
16) Methylene chloride	2.68	84	7009	2.977	ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	5492	2.580	ug/L	96
18) Methyl tert-butyl Ether	2.98	73	15542	2.474	ug/L #	90
19) 1,1-Dichloroethane	3.42	63	10638	2.654	ug/L	95
20) cis-1,2-Dichloroethene	4.20	96	5946	2.531	ug/L	95
22) 2-Butanone	4.25	43	8295m	4.622	ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	3263	2.615	ug/L	94
25) Chloroform	4.65	83	21561	5.074	ug/L	93
27) 1,2-Dichloroethane	5.39	62	8805	2.668	ug/L	98
29) Cyclohexane	4.97	56	7387	2.259	ug/L	93
30) 1,1,1-Trichloroethane	4.89	97	9610	2.711	ug/L #	86
31) Carbon tetrachloride	5.11	117	7912	2.508	ug/L	94
33) Benzene	5.37	78	24037	2.702	ug/L	100
34) Trichloroethene	6.17	95	6593	2.844	ug/L	89
35) Methylcyclohexane	6.40	83	8257	2.343	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6848	2.862	ug/L #	95
38) Bromodichloromethane	6.74	83	8011	2.543	ug/L	94
39) cis-1,3-Dichloropropene	7.25	75	8249	2.312	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	15603	4.948	ug/L	93
42) Toluene	7.62	91	26012	2.717	ug/L	95
44) trans-1,3-Dichloropropene	7.86	75	8257	2.550	ug/L	92
45) 1,1,2-Trichloroethane	8.05	97	6397	2.803	ug/L	88
46) Tetrachloroethene	8.21	164	4835	2.563	ug/L	94
48) 2-Hexanone	8.35	43	15952	6.209	ug/L	95
49) Dibromochloromethane	8.46	129	6538	2.559	ug/L	95
50) 1,2-Dibromoethane	8.57	107	6384	2.579	ug/L	98
51) Chlorobenzene	9.10	112	16159	2.540	ug/L	97
52) Ethylbenzene	9.23	91	23998	2.312	ug/L	97
53) m,p-Xylene	9.36	106	9109	2.334	ug/L	95
54) o-xylene	9.76	106	8327	2.176	ug/L	100
55) Styrene	9.78	104	13797	2.125	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.44	83	11575	2.853	ug/L #	93
59) Bromoform	9.94	173	4482	2.653	ug/L #	93
60) 1,2,3-Trichloropropane	10.48	75	8606	3.128	ug/L	97
61) Isopropylbenzene	10.15	105	20856	2.411	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	15695	2.239	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	14529	2.090	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	11645	2.641	ug/L	97
65) 1,4-Dichlorobenzene	11.49	146	12348	2.711	ug/L	97
67) 1,2-Dichlorobenzene	11.86	146	13247	2.998	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.64	75	2033	2.657	ug/L #	82
69) 1,3,5-Trichlorobenzene	12.88	180	8034	2.400	ug/L	95
70) 1,2,4-trichlorobenzene	13.49	180	4710	1.685	ug/L	97
71) Naphthalene	13.74	128	13075m	1.618	ug/L	
72) 1,2,3-Trichlorobenzene	13.98	180	6000m	2.050	ug/L	

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

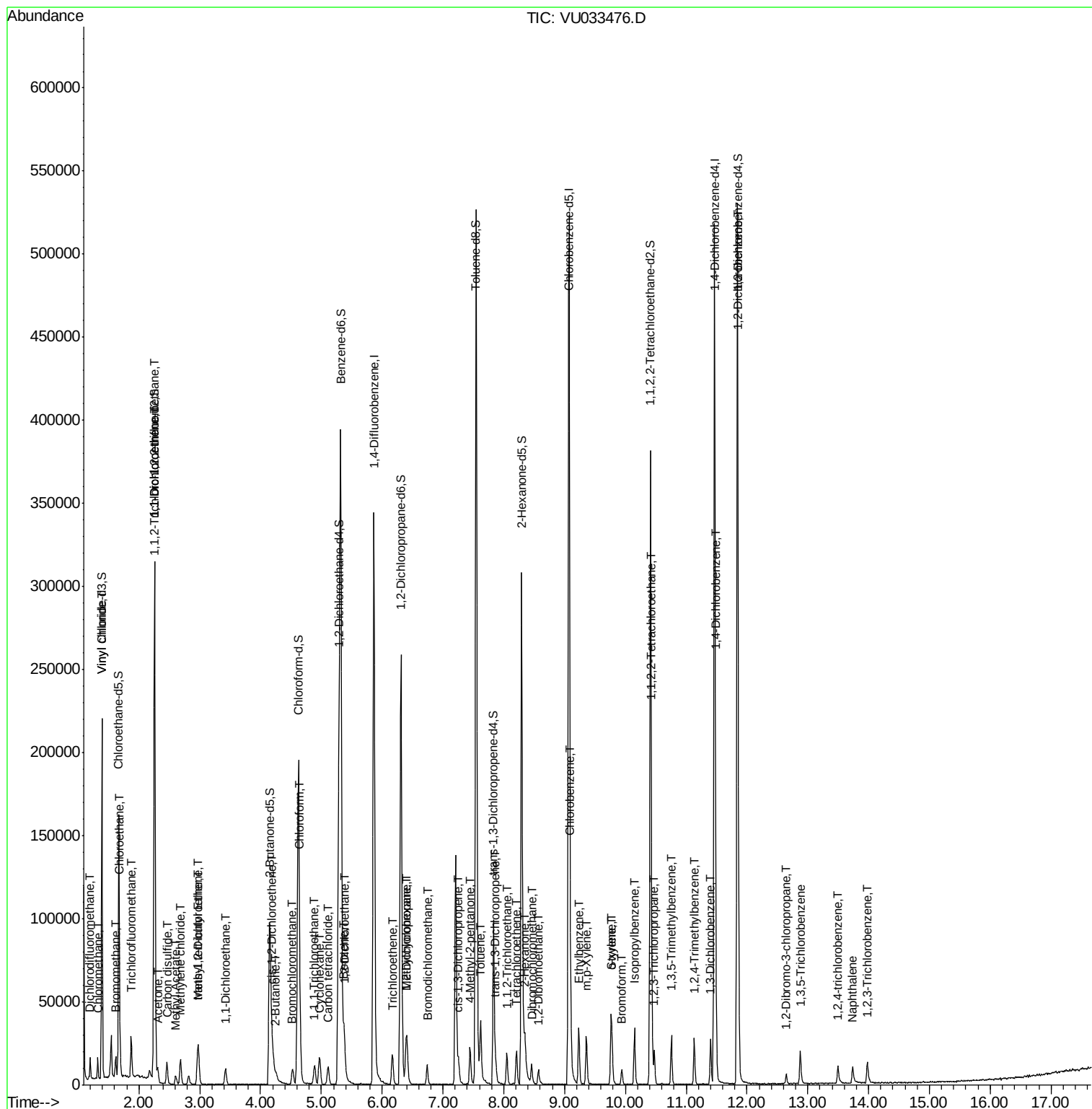
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072919\
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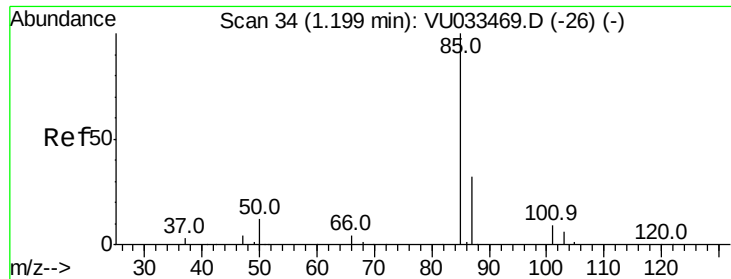
Instrument :
MSVOA_U
ClientSampleId :
MDL02

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#2

Dichlorodifluoromethane

Concen: 2.632 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 7692

Ion Ratio Lower Upper

85 100

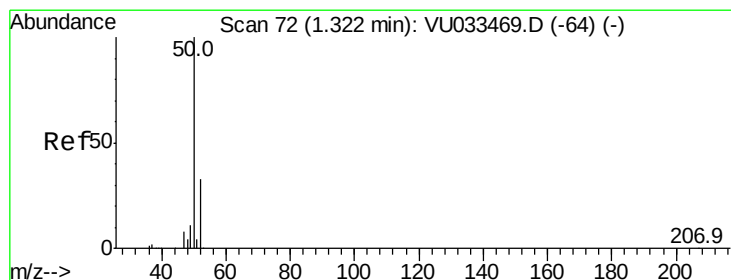
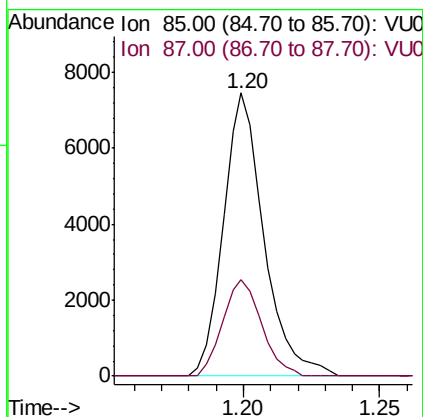
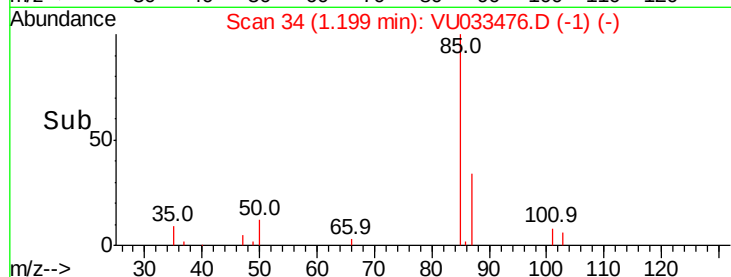
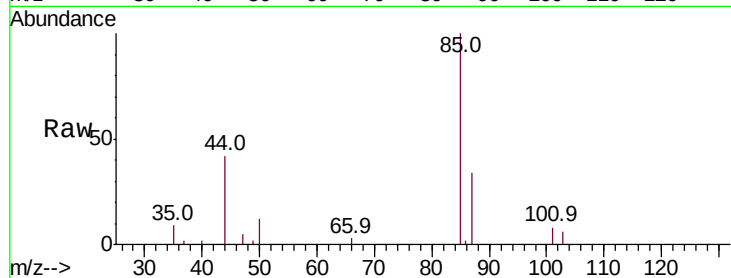
87 33.0 25.7 38.5

Manual Integrations

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#3

Chloromethane

Concen: 2.738 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033476.D

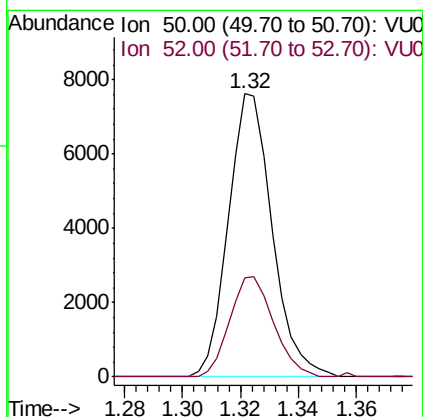
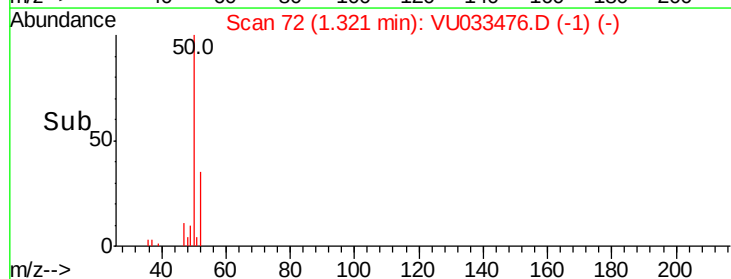
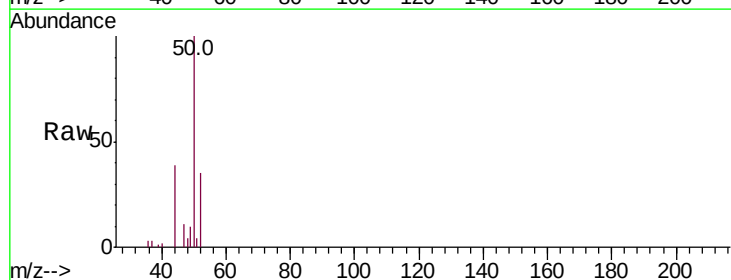
Acq: 29 Jul 2019 18:28

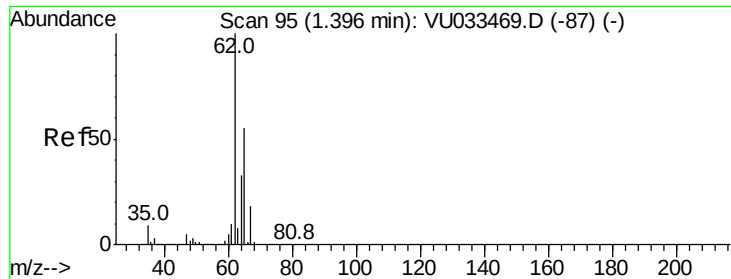
Tgt Ion: 50 Resp: 7988

Ion Ratio Lower Upper

50 100

52 35.0 23.3 43.3





#5

Vinyl chloride

Concen: 2.757 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 62 Resp: 9199

Ion Ratio Lower Upper

62 100

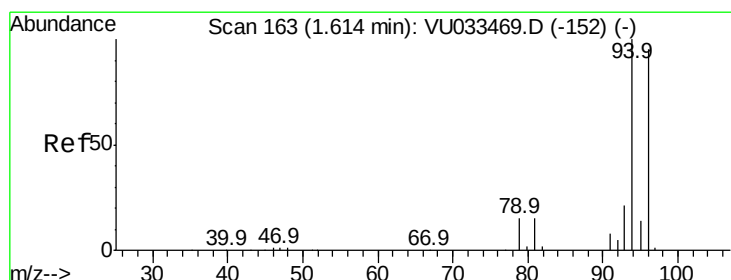
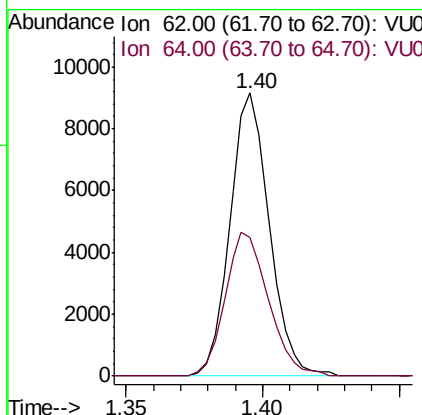
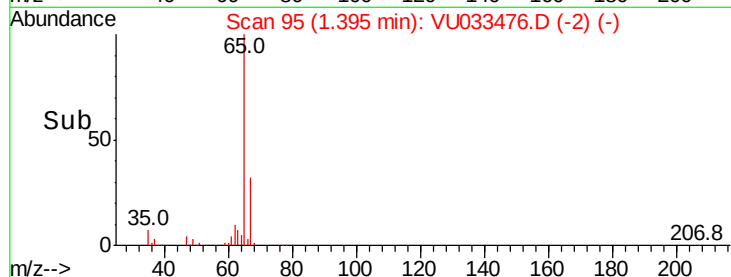
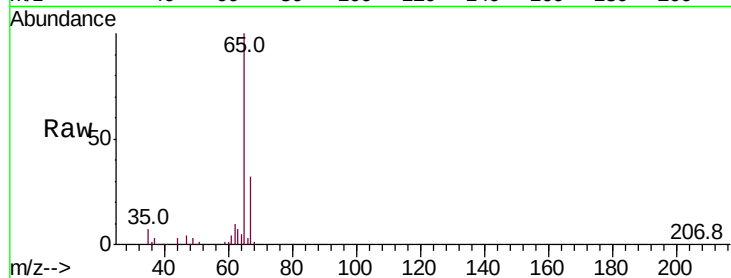
64 49.0 23.0 42.6#

Manual Integrations

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#6

Bromomethane

Concen: 2.549 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033476.D

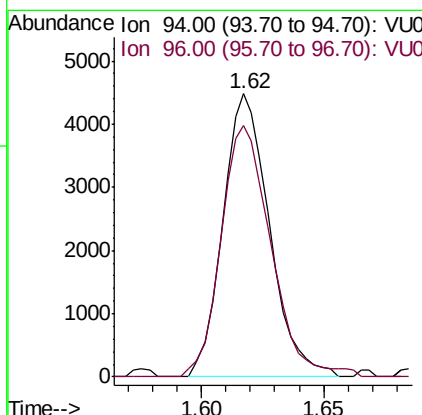
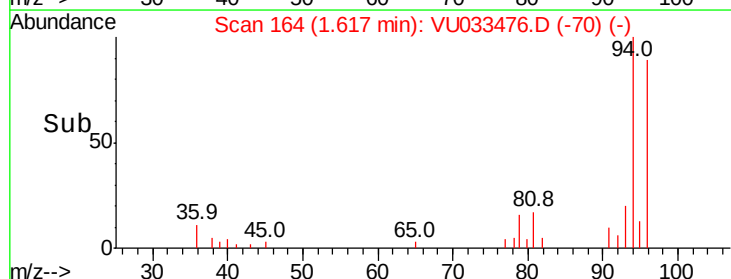
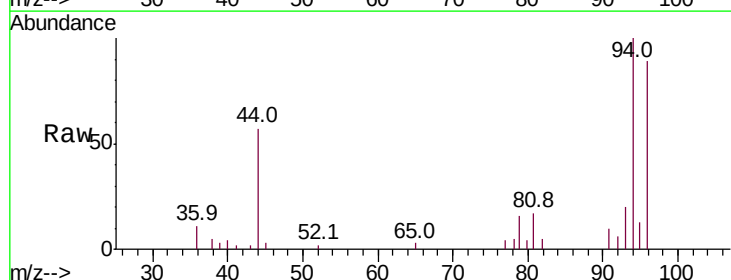
Acq: 29 Jul 2019 18:28

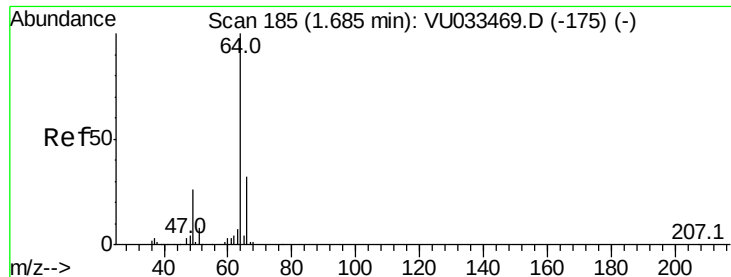
Tgt Ion: 94 Resp: 5944

Ion Ratio Lower Upper

94 100

96 89.0 66.2 123.0





#8

Chloroethane

Concen: 2.821 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 64 Resp: 5775

Ion Ratio Lower Upper

64 100

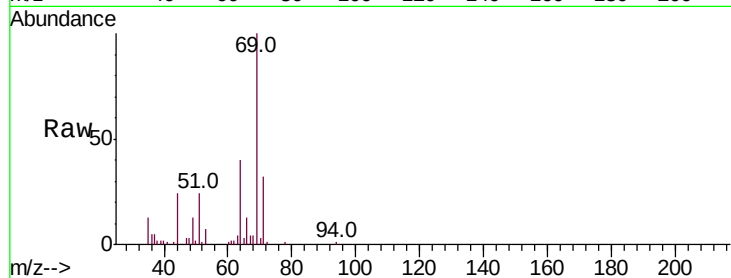
66 31.8 22.1 41.1

Manual Integrations

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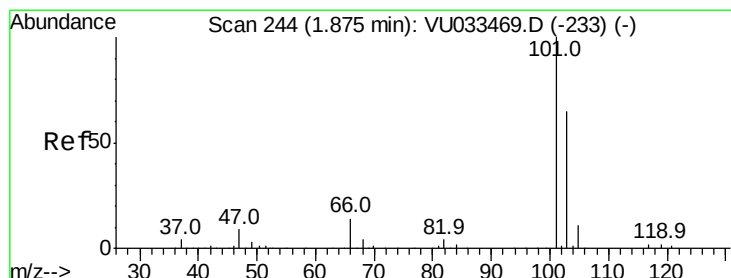
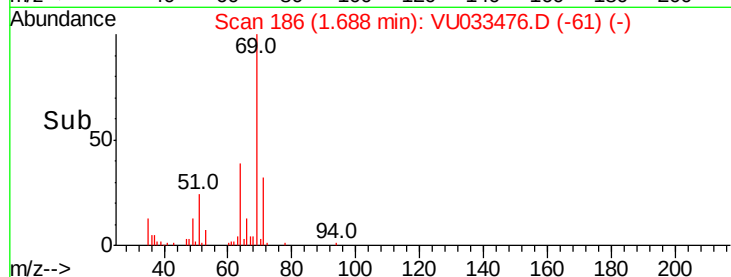
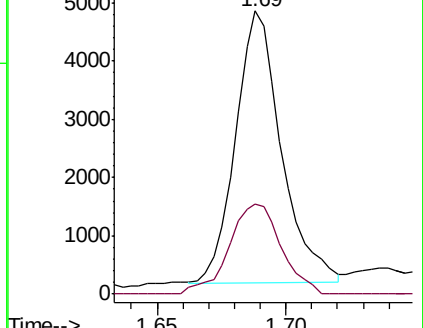
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Abundance Ion 64.00 (63.70 to 64.70): VU033469.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033469.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 2.729 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033476.D

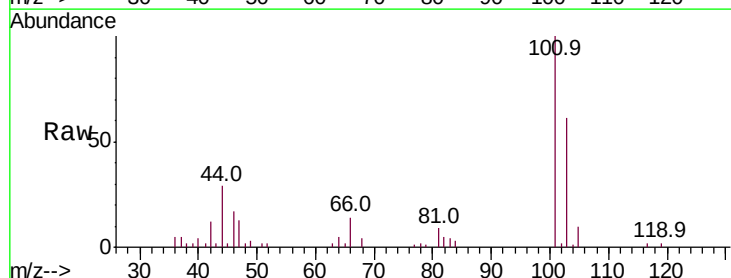
Acq: 29 Jul 2019 18:28

Tgt Ion: 101 Resp: 11944

Ion Ratio Lower Upper

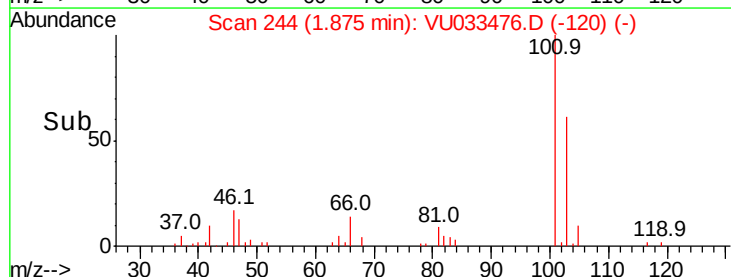
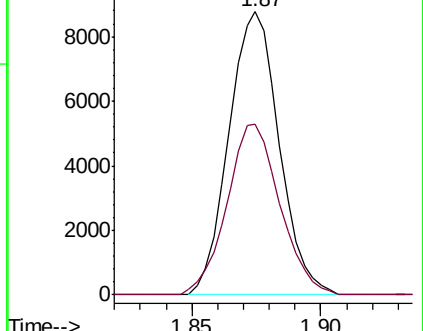
101 100

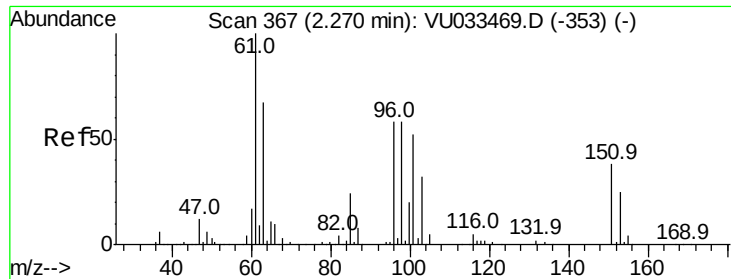
103 63.5 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU033469.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033469.D (-233) (-)





#10

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

Concen: 3.227 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

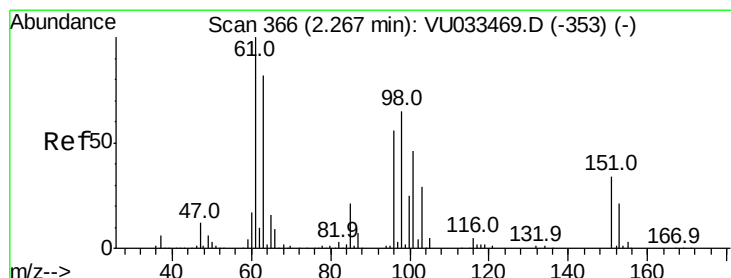
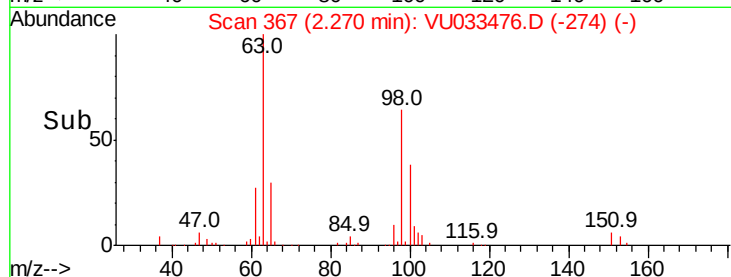
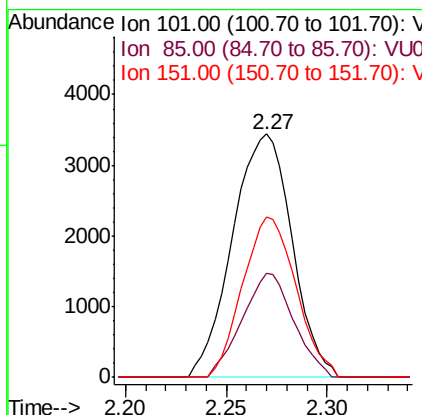
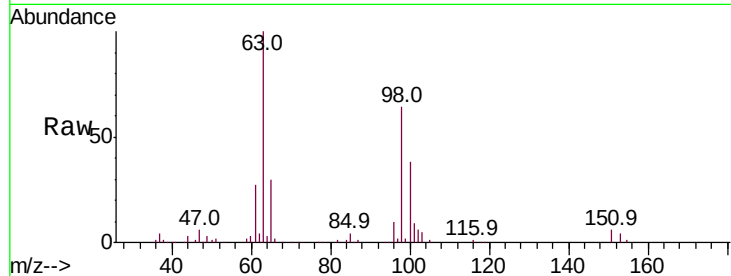
ClientSampled :

MDL02

Tot Ion:	101	Resp:	7097
Ion Ratio	Lower	Upper	
101	100		
85	37.0	35.8	53.8
151	59.0	58.6	87.8

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.100 ug/L

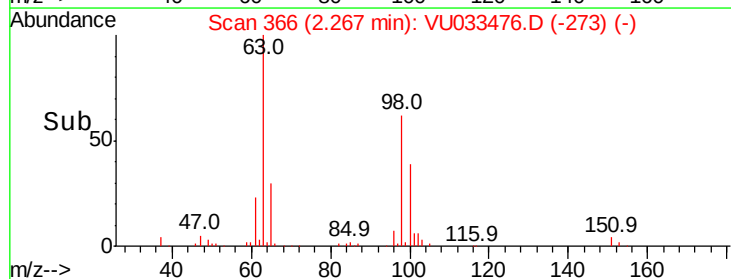
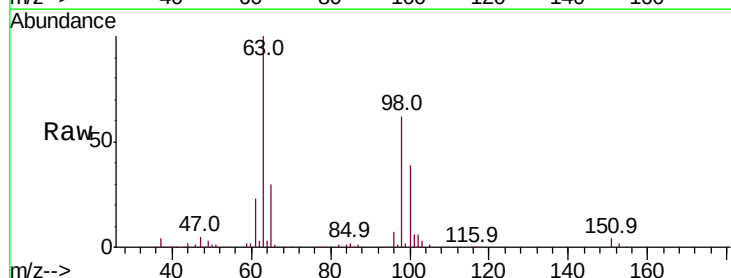
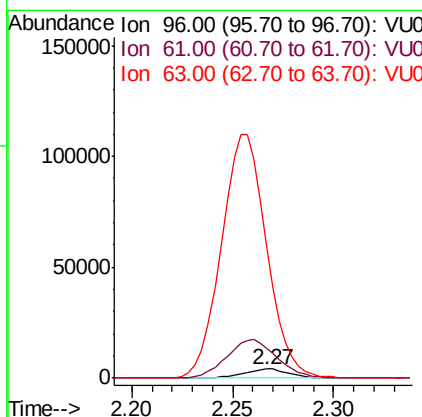
RT: 2.27 min Scan# 366

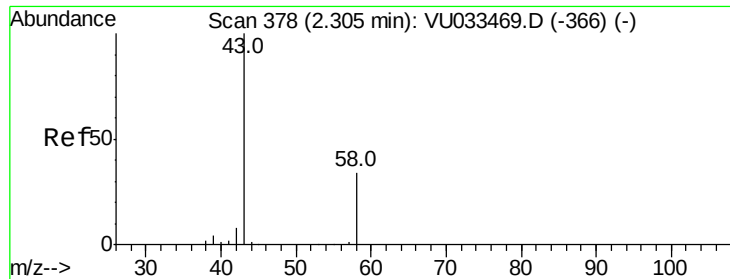
Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Tgt Ion:	96	Resp:	6643
Ion Ratio	Lower	Upper	
96	100		
61	322.4	124.1	230.5#
63	1417.4	101.8	189.2#





#13

Acetone

Concen: 4.845 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 7319

Ion Ratio Lower Upper

43 100

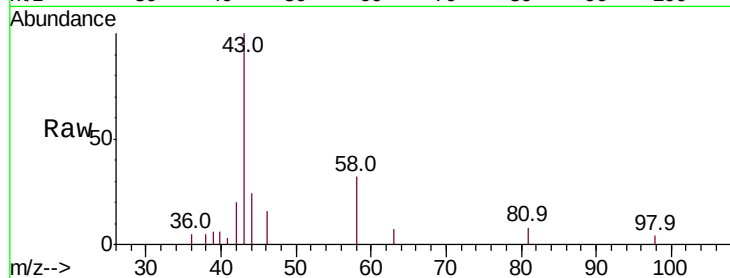
58 33.2 0.0 67.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU033476.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VU033476.D (-366) (-)

5000

4000

3000

2000

1000

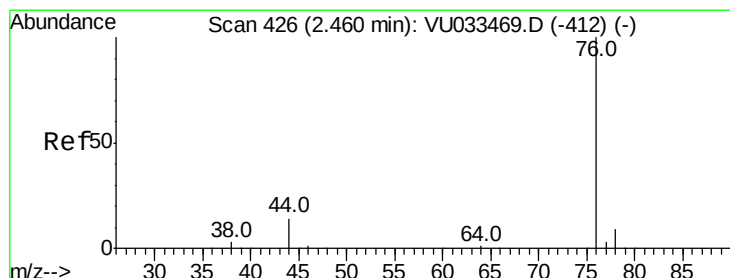
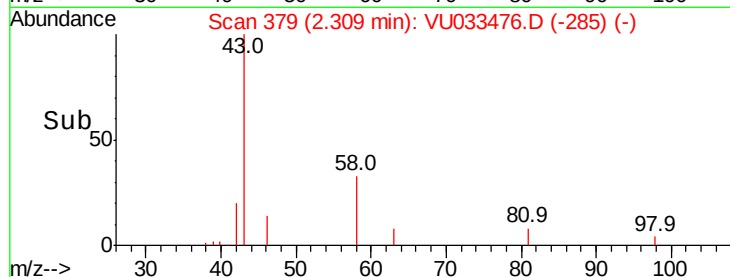
0

2.25

2.30

2.35

Time-->



#14

Carbon disulfide

Concen: 2.549 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033476.D

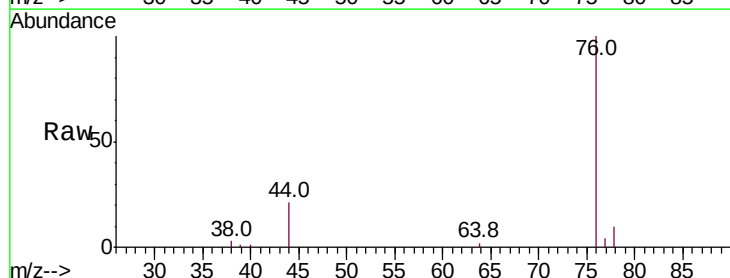
Acq: 29 Jul 2019 18:28

Tgt Ion: 76 Resp: 16276

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU033476.D (-333) (-)

Ion 78.00 (77.70 to 78.70): VU033476.D (-333) (-)

10000

8000

6000

4000

2000

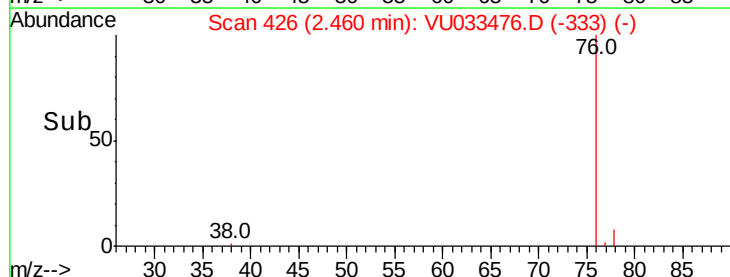
0

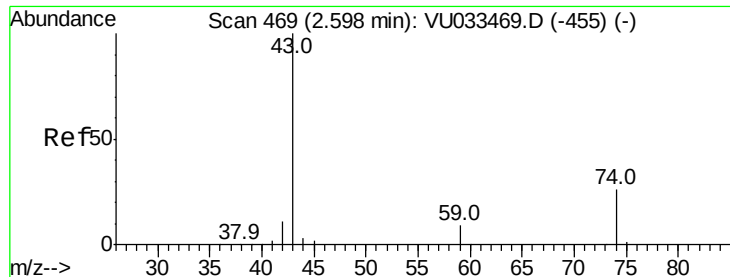
2.40

2.45

2.50

Time-->





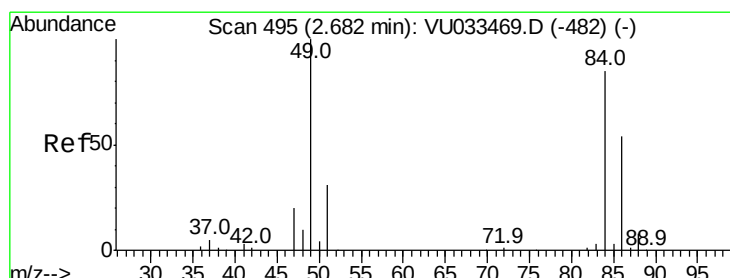
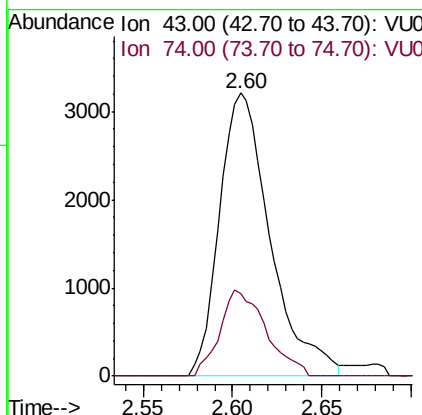
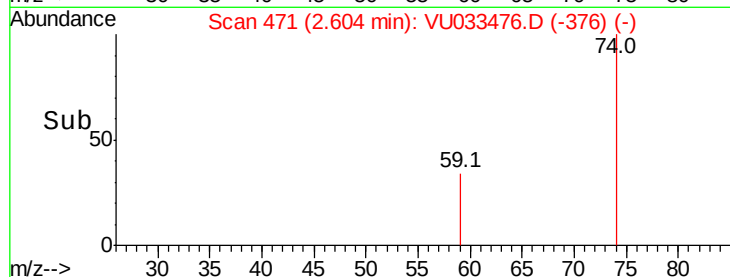
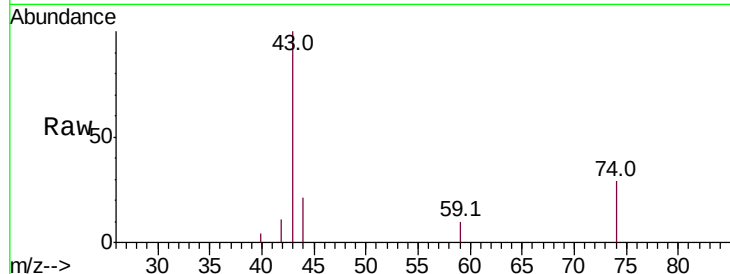
#15
Methyl Acetate
Concen: 2.619 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.01 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 43 Resp: 6345
Ion Ratio Lower Upper
43 100
74 27.8 20.5 30.7

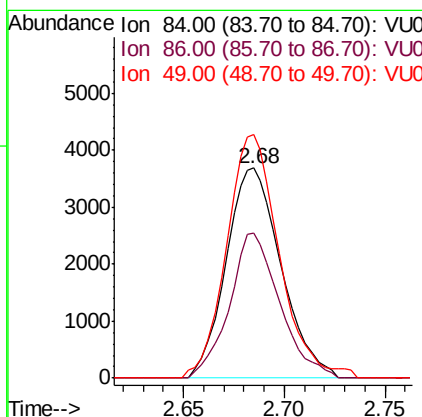
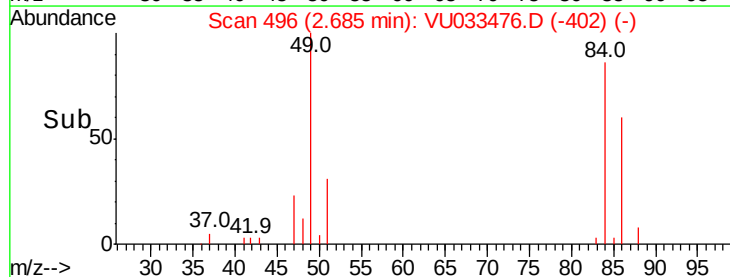
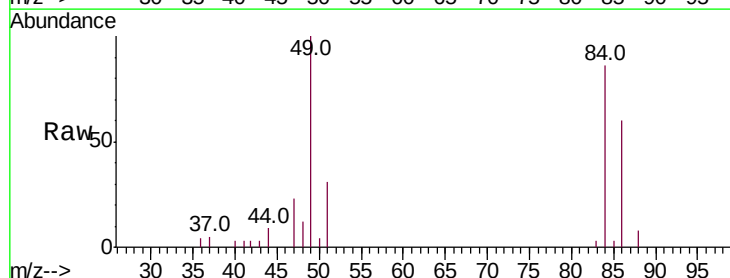
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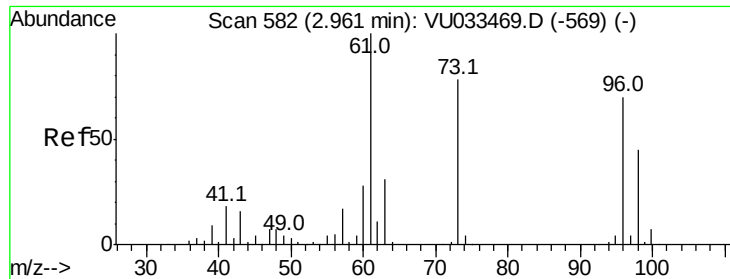
MMDadoda
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#16
Methylene chloride
Concen: 2.977 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion: 84 Resp: 7009
Ion Ratio Lower Upper
84 100
86 69.2 44.2 82.0
49 116.0 82.3 152.8





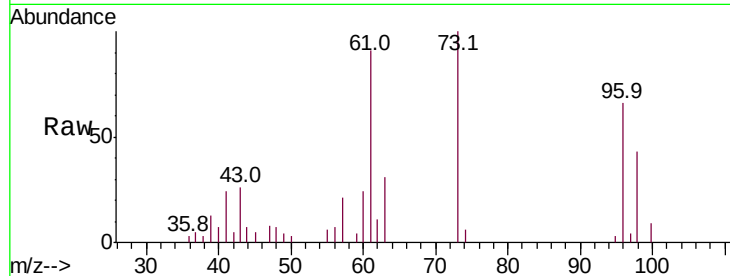
#17
trans-1,2-Dichloroethene
Concen: 2.580 ug/L
RT: 2.97 min Scan# 584
Delta R.T. 0.01 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.9	100.3	186.3
98	64.2	45.1	83.9

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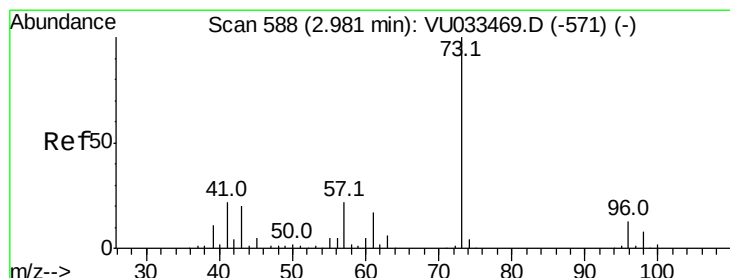
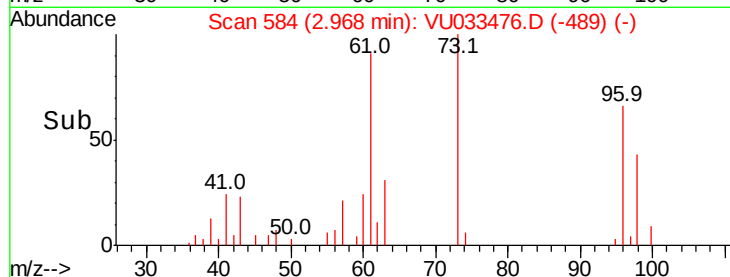
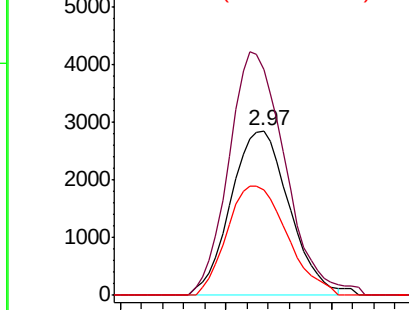


Abundance

Ion 96.00 (95.70 to 96.70): VU0

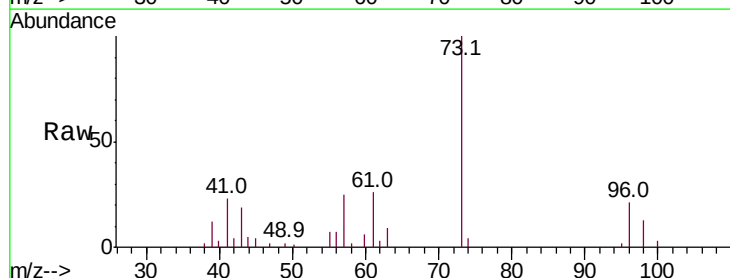
Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18
Methyl tert-butyl Ether
Concen: 2.474 ug/L
RT: 2.98 min Scan# 588
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
73	100		
43	10.0	15.3	22.9#
57	22.4	17.7	26.5

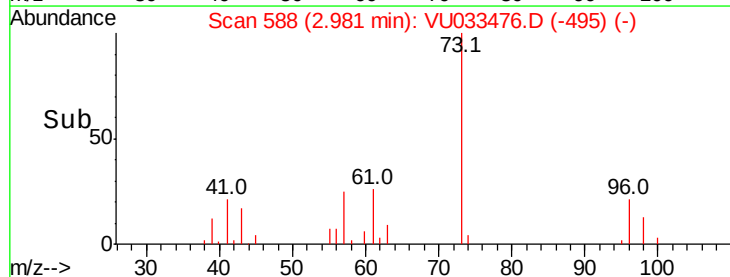
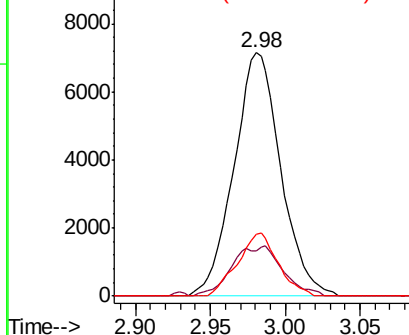


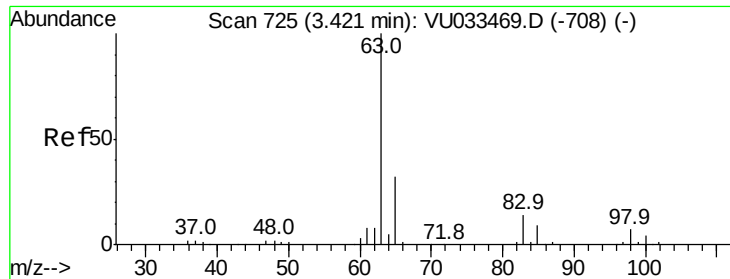
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.654 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

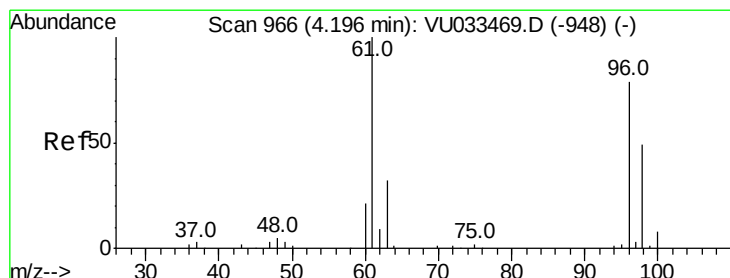
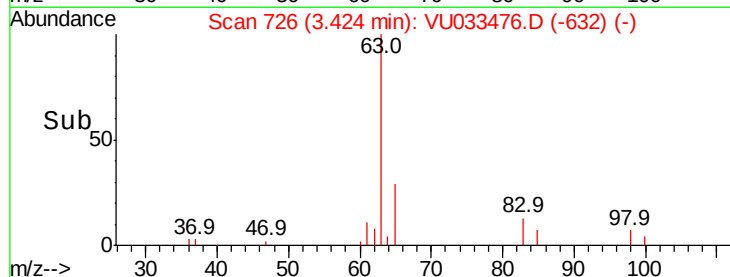
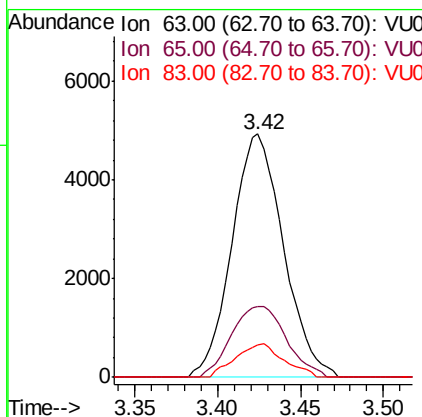
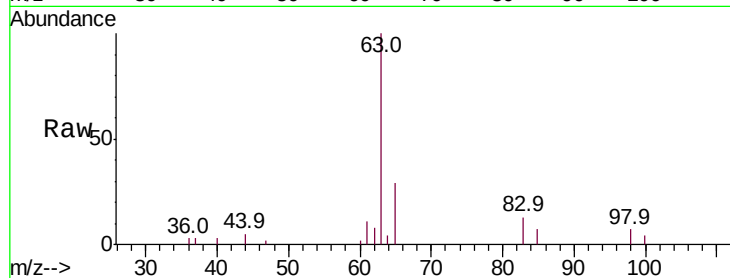
ClientSampled :

MDL02

Tot Ion:	63	Resp:	10638
Ion	Ratio	Lower	Upper
63	100		
65	29.0	22.7	42.1
83	13.2	9.4	17.6

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#20

cis-1,2-Dichloroethene

Concen: 2.531 ug/L

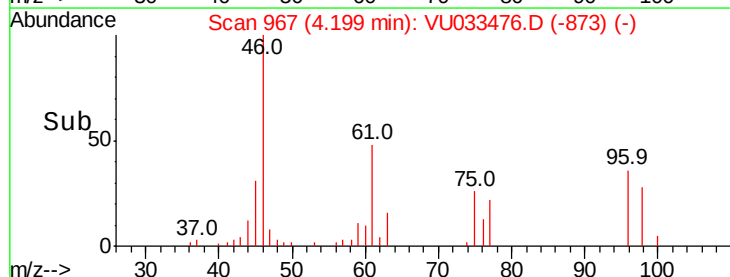
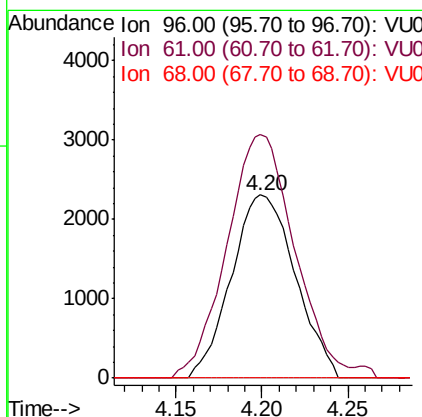
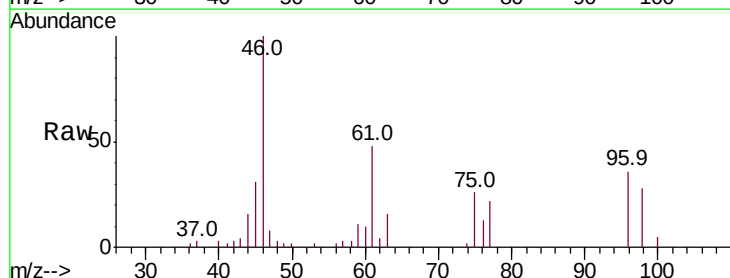
RT: 4.20 min Scan# 967

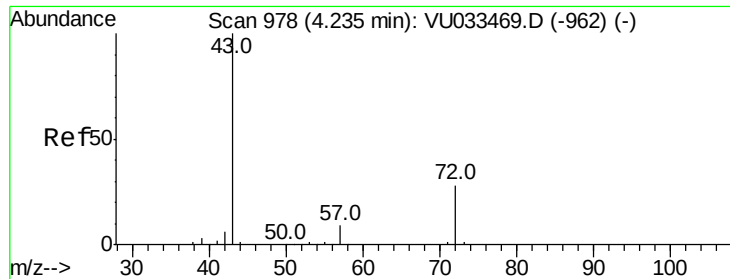
Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Tgt Ion:	96	Resp:	5946
Ion	Ratio	Lower	Upper
96	100		
61	133.0	88.9	165.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.622 ug/L m

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 8295

Ion Ratio Lower Upper

43 100

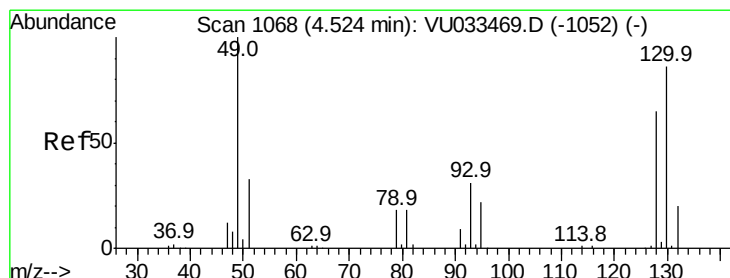
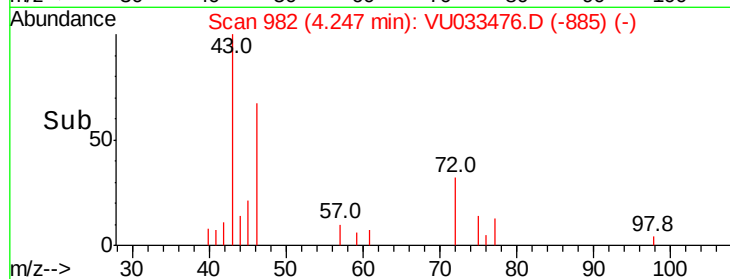
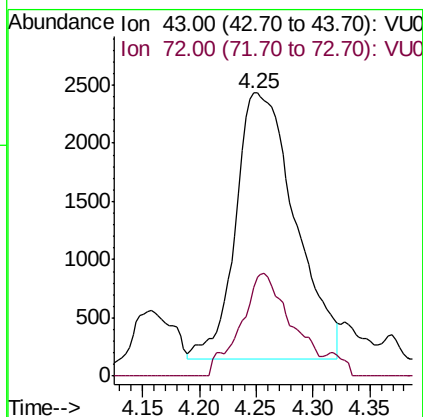
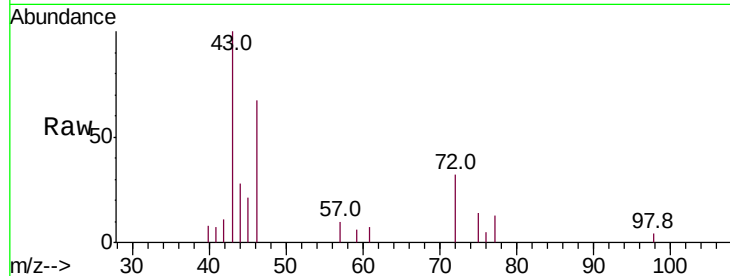
72 31.4 14.1 42.3

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#23

Bromochloromethane

Concen: 2.615 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Tgt Ion: 128 Resp: 3263

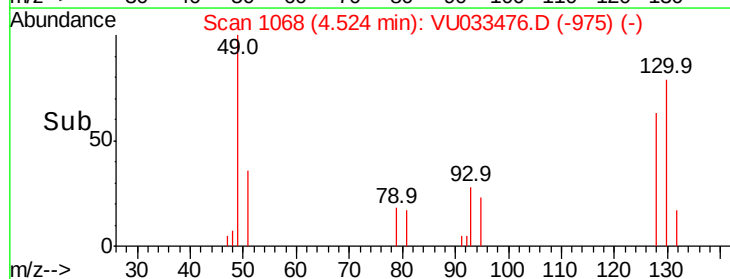
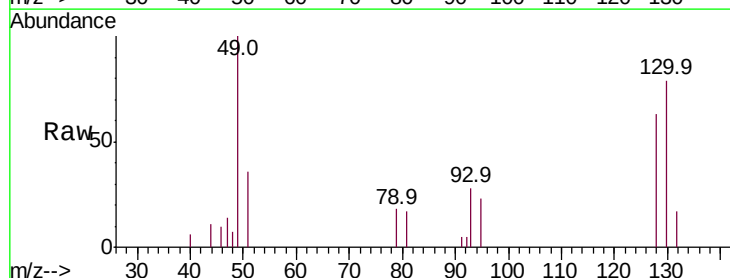
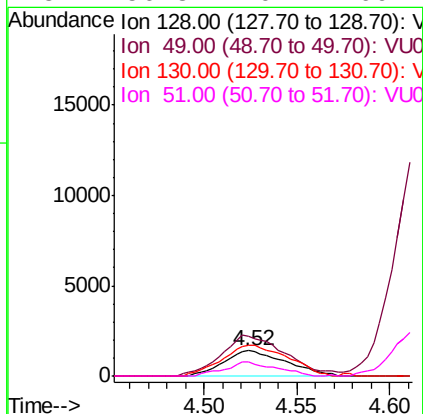
Ion Ratio Lower Upper

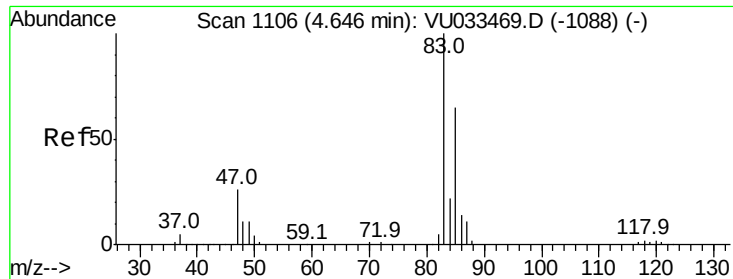
128 100

49 157.9 108.0 200.6

130 124.1 92.9 172.5

51 56.8 40.2 60.4





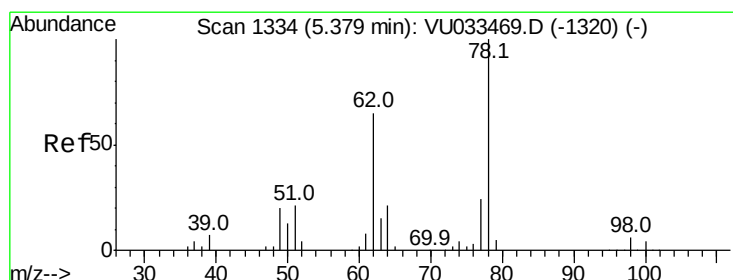
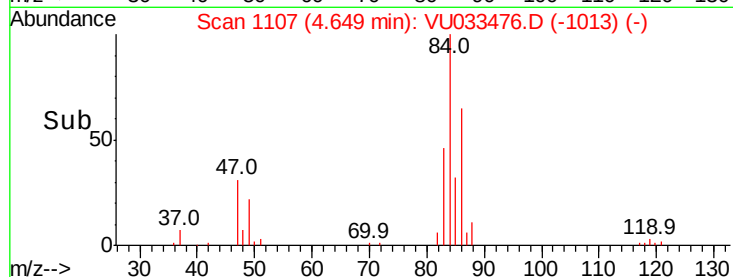
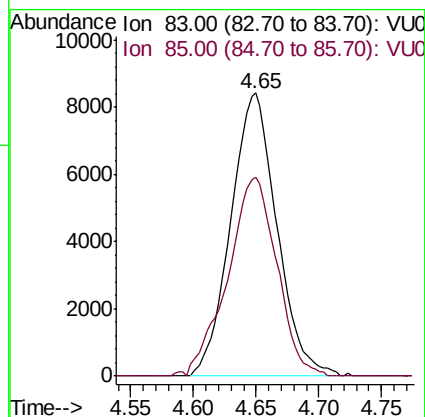
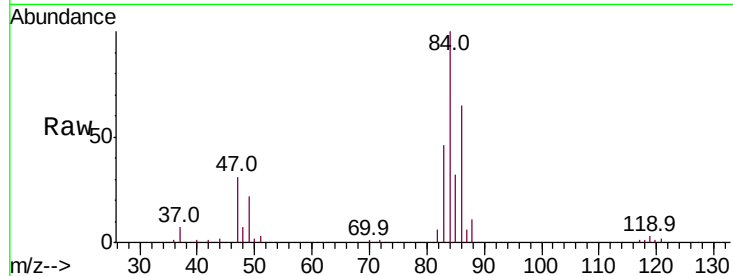
#25
Chloroform
Concen: 5.074 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 21561
Ion Ratio Lower Upper
83 100
85 70.4 45.6 84.8

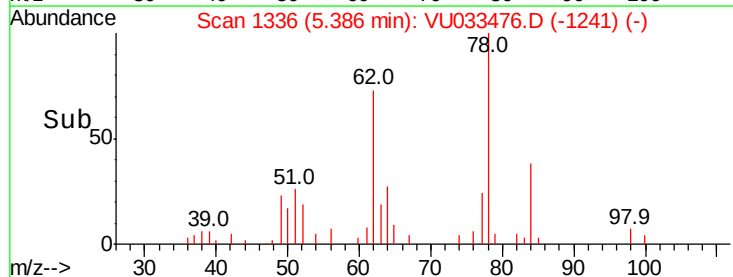
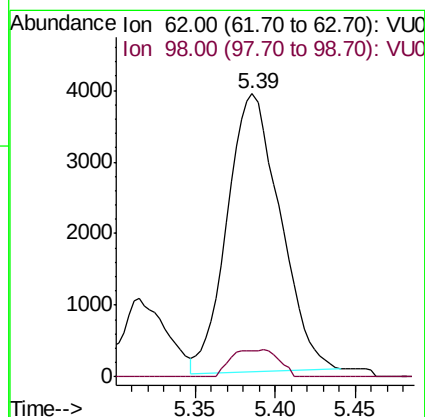
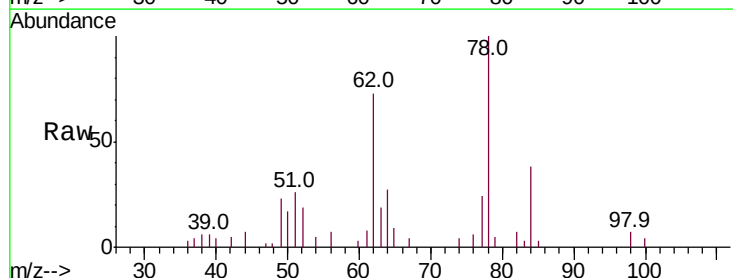
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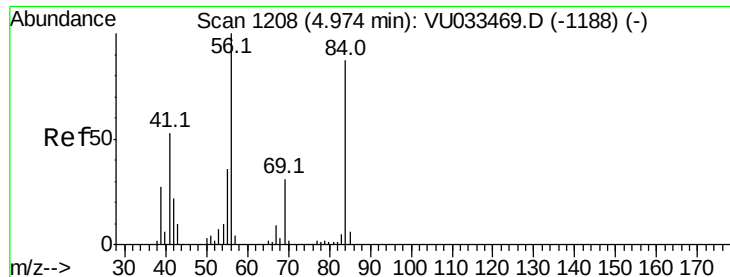
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.668 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion: 62 Resp: 8805
Ion Ratio Lower Upper
62 100
98 9.1 6.7 10.1





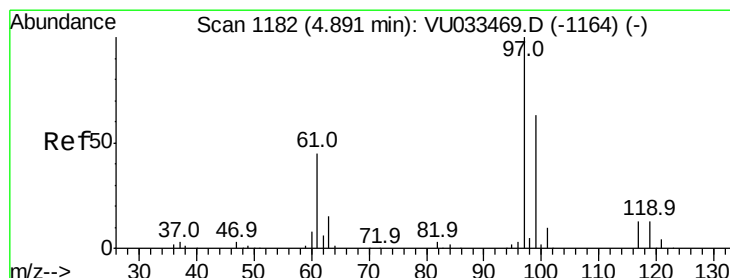
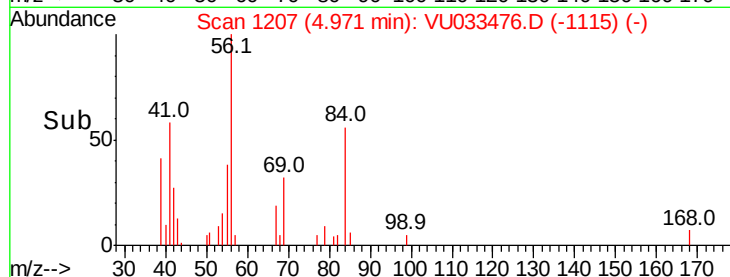
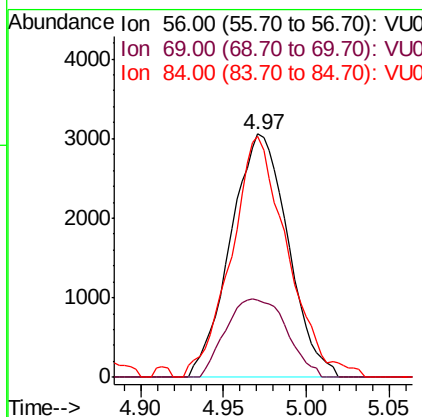
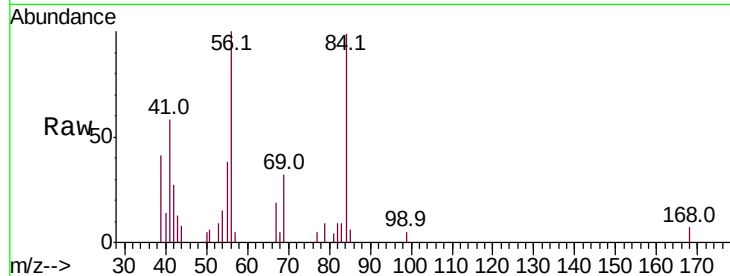
#29
Cyclohexane
Concen: 2.259 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.1	25.3	37.9
84	94.8	69.6	104.4

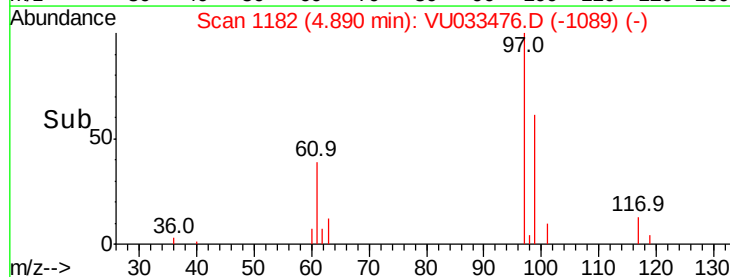
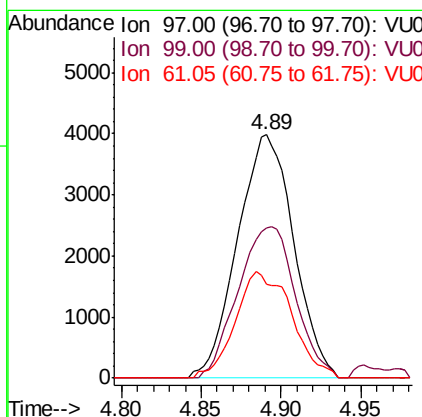
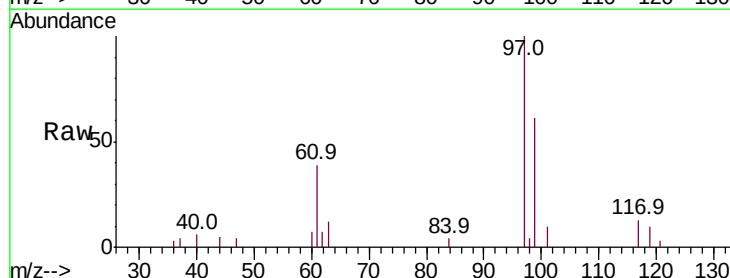
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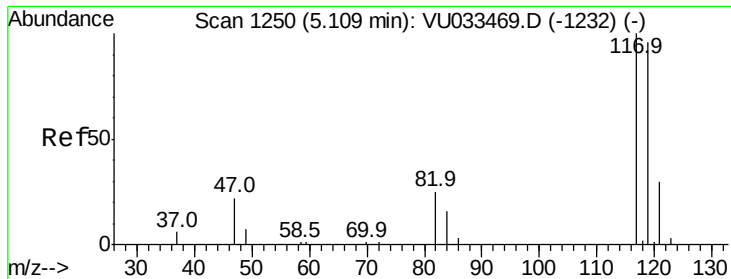
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.711 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.8	77.6
61	23.9	36.2	54.2#





#31

Carbon tetrachloride

Concen: 2.508 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:117 Resp: 7912

Ion Ratio Lower Upper

117 100

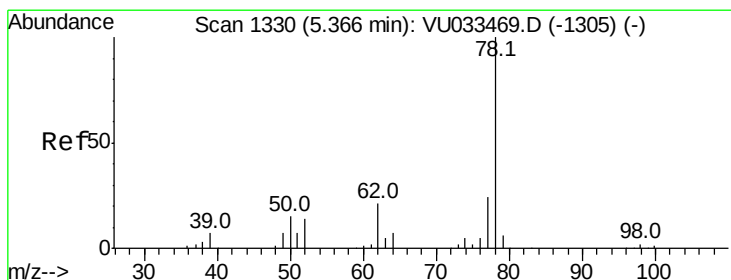
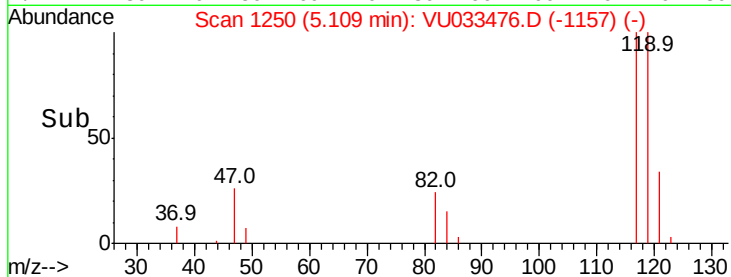
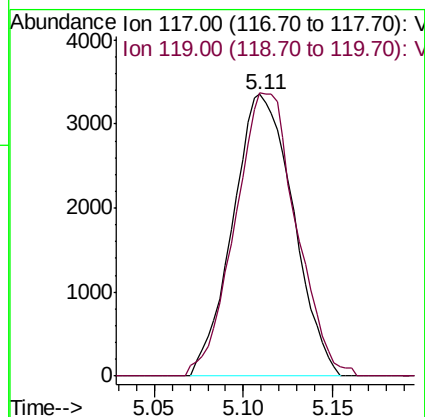
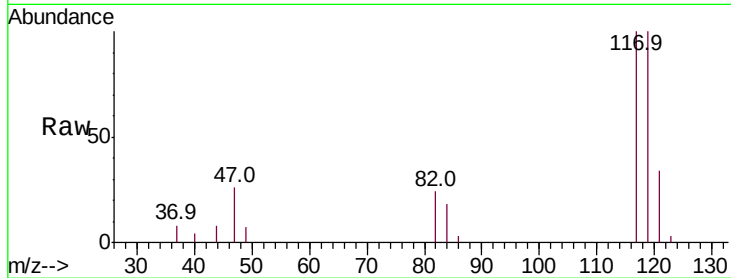
119 101.5 76.8 115.2

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#33

Benzene

Concen: 2.702 ug/L

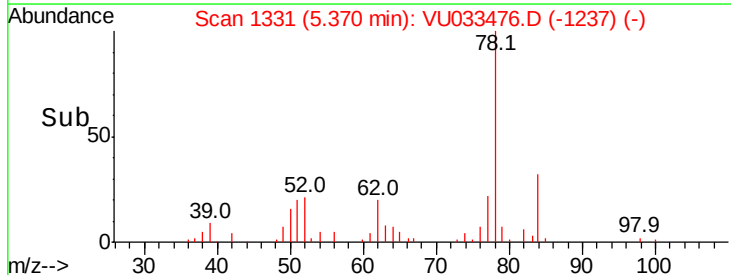
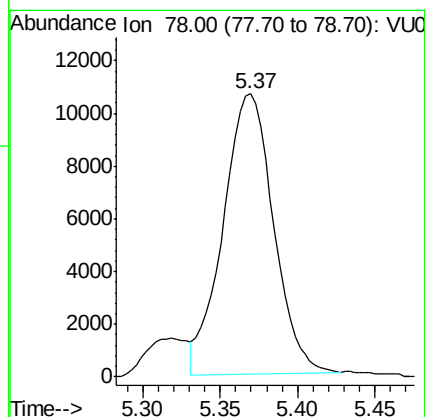
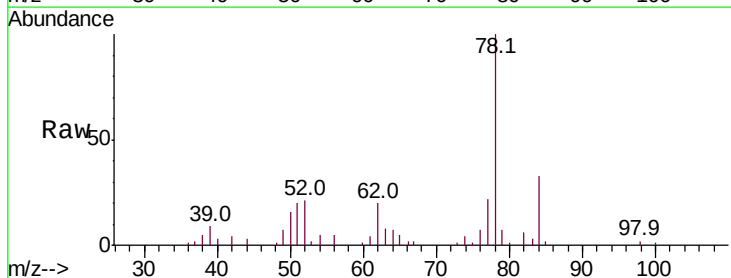
RT: 5.37 min Scan# 1331

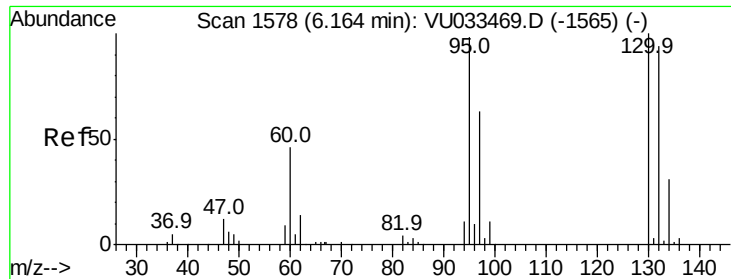
Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Tgt Ion: 78 Resp: 24037





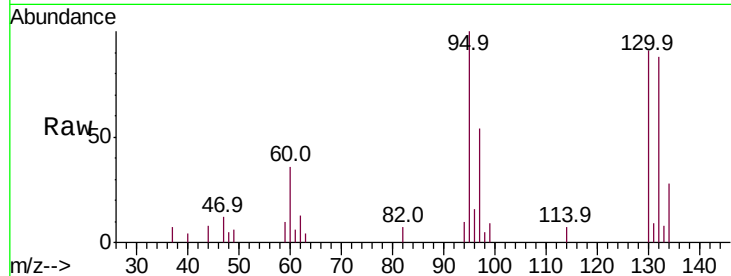
#34
 Trichloroethene
 Concen: 2.844 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL02

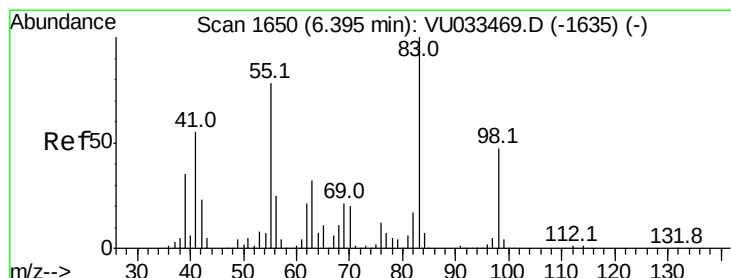
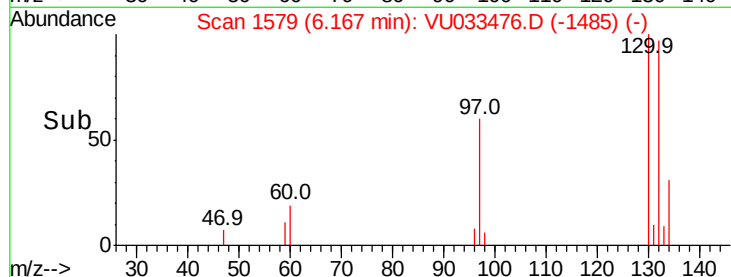
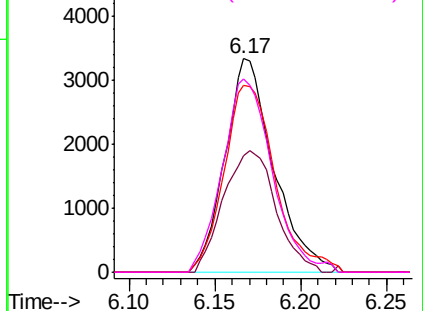
Tot Ion: 95 Resp: 6593
 Ion Ratio Lower Upper
 95 100
 97 54.5 45.4 84.2
 132 87.6 67.1 124.5
 130 90.5 71.4 132.6

Manual Integrations
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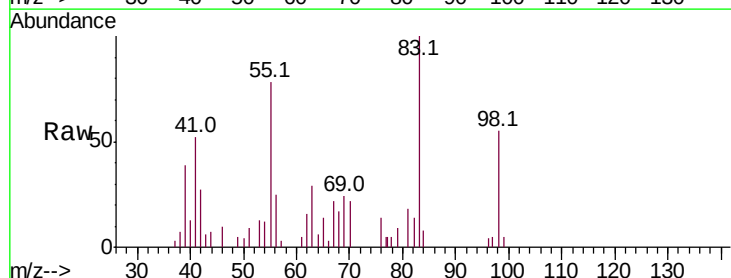


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

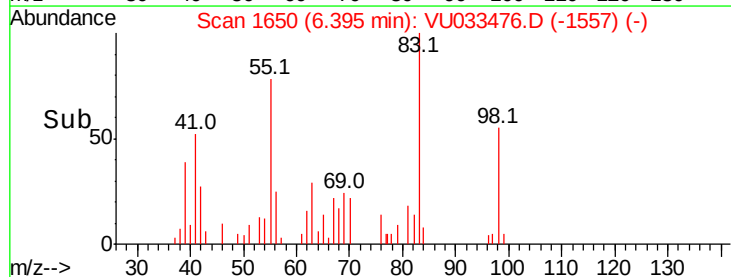
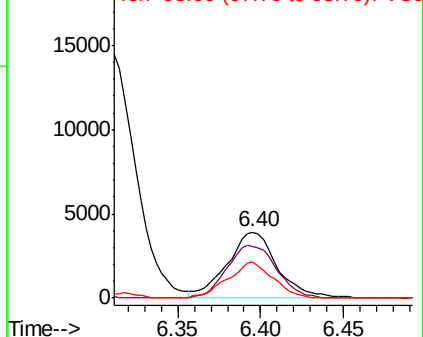


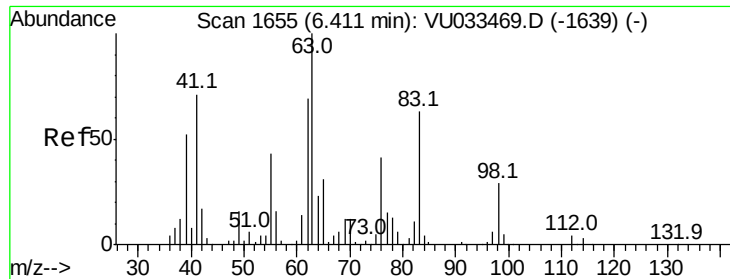
#35
 Methylcyclohexane
 Concen: 2.343 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion: 83 Resp: 8257
 Ion Ratio Lower Upper
 83 100
 55 78.6 62.4 93.6
 98 48.9 37.3 55.9



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





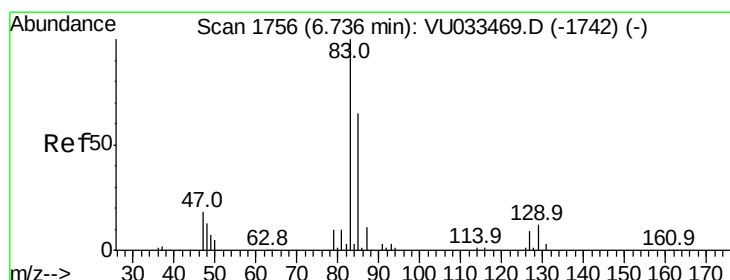
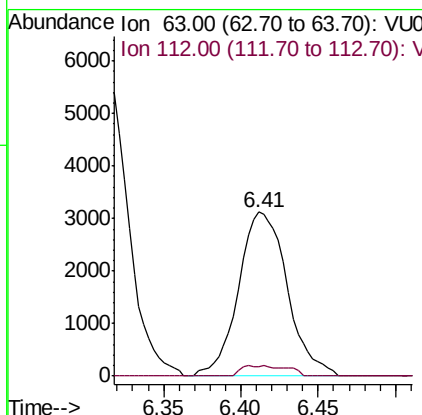
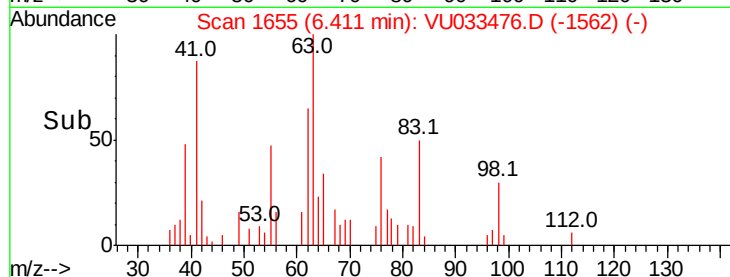
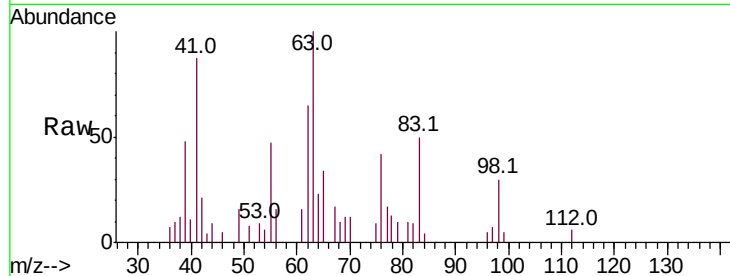
#37
 1,2-Dichloropropane
 Concen: 2.862 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 63 Resp: 6848
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.1 4.7#

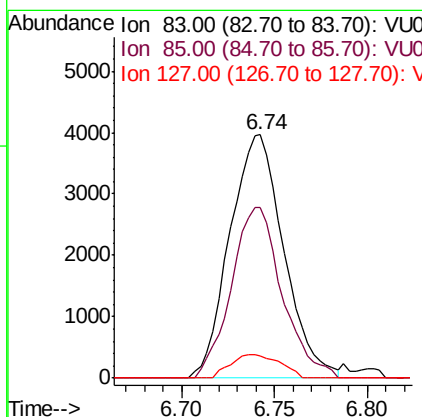
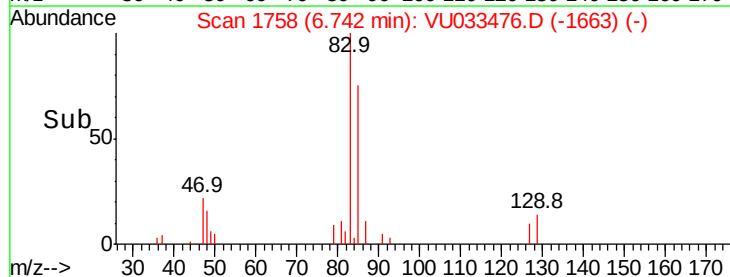
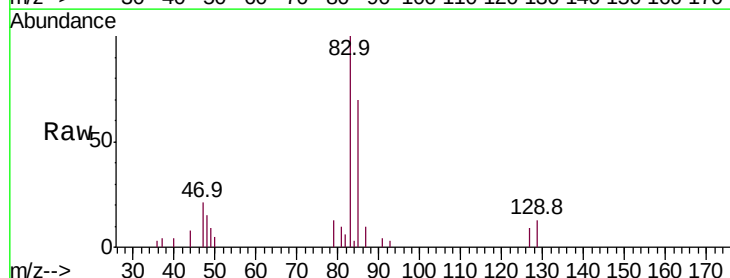
Manual Integrations
 APPROVED

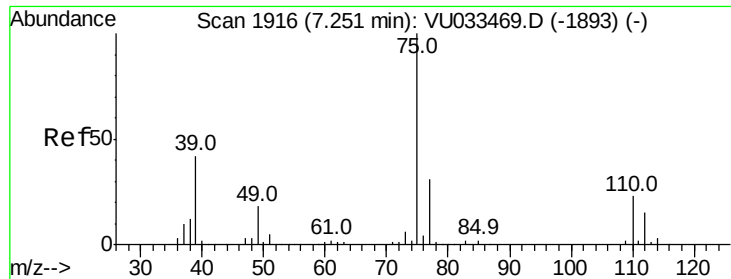
MMDadoda
 7/30/2019 3:01:02 PM



#38
 Bromodichloromethane
 Concen: 2.543 ug/L
 RT: 6.74 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion: 83 Resp: 8011
 Ion Ratio Lower Upper
 83 100
 85 70.1 45.4 84.4
 127 9.2 7.3 10.9





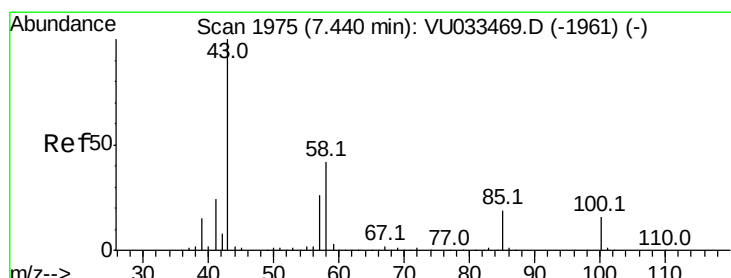
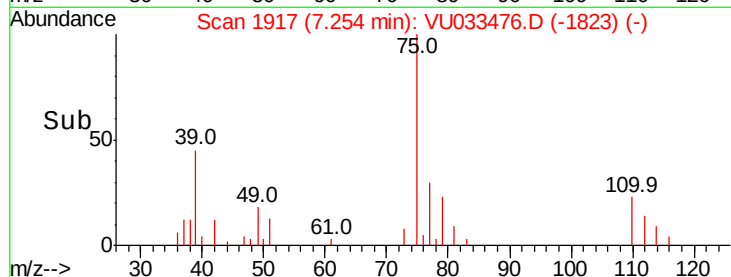
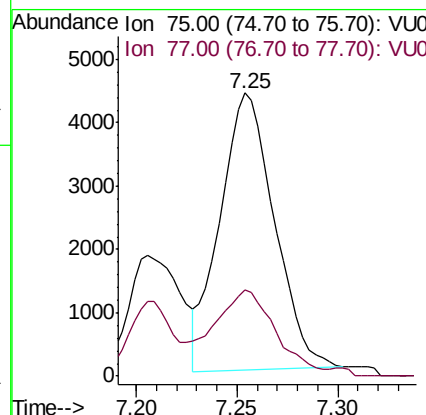
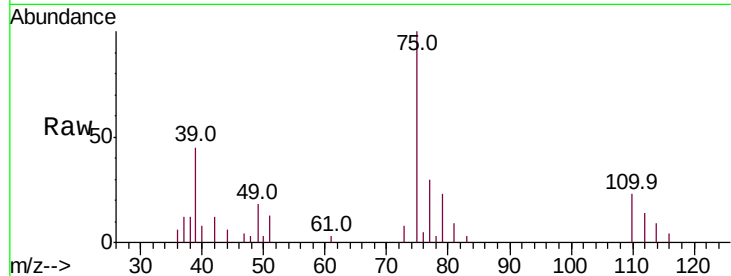
#39
 cis-1,3-Dichloropropene
 Concen: 2.312 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 8249
 Ion Ratio Lower Upper
 75 100
 77 30.4 21.6 40.2

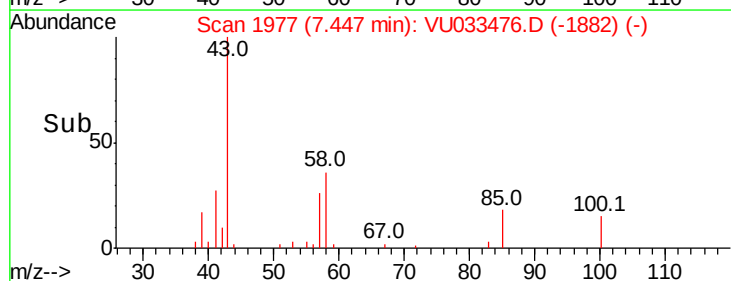
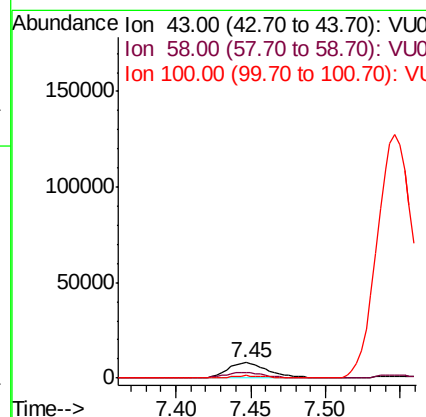
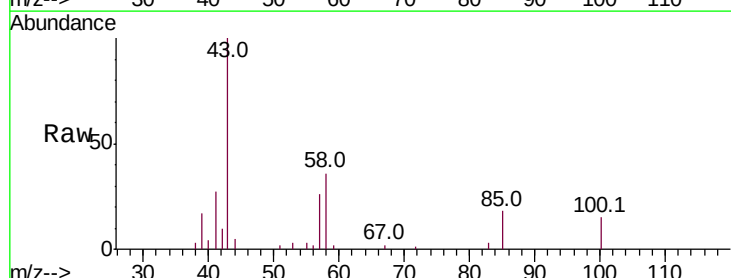
Manual Integrations
 APPROVED

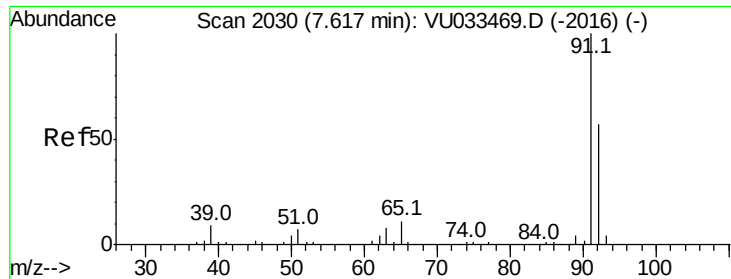
MMDadoda
 7/30/2019 3:01:02 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.948 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion: 43 Resp: 15603
 Ion Ratio Lower Upper
 43 100
 58 37.0 33.4 50.2
 100 13.8 12.3 18.5





#42

Toluene

Concen: 2.717 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 26012

Ion Ratio Lower Upper

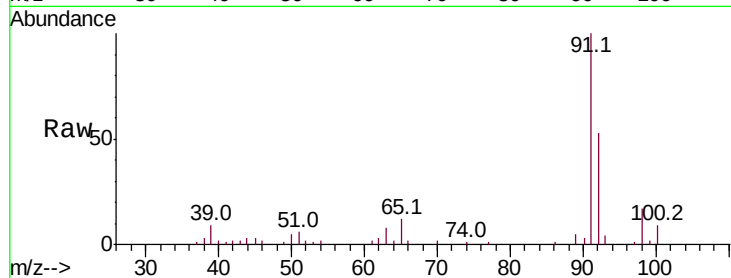
91 100

92 53.3 40.1 74.5

Manual Integrations
APPROVED

MMDadoda

7/30/2019 3:01:02 PM



Abundance Ion 91.00 (90.70 to 91.70): VU033469.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033469.D (-2016) (-)

7.62

15000

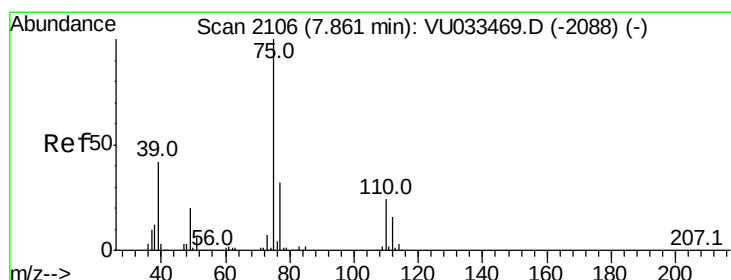
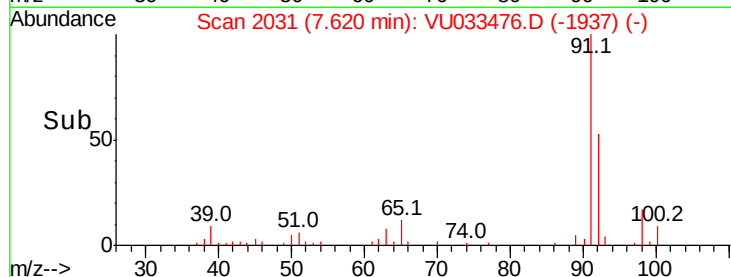
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.550 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033476.D

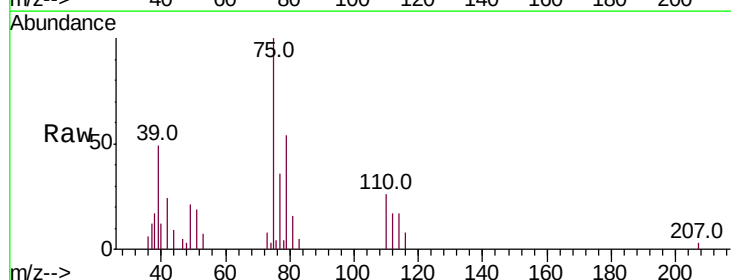
Acq: 29 Jul 2019 18:28

Tgt Ion: 75 Resp: 8257

Ion Ratio Lower Upper

75 100

77 36.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033469.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033469.D (-2088) (-)

7.86

4000

3000

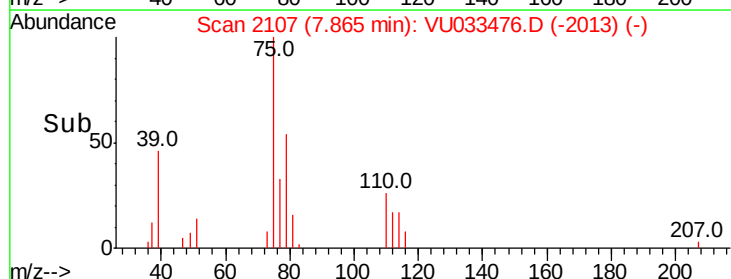
2000

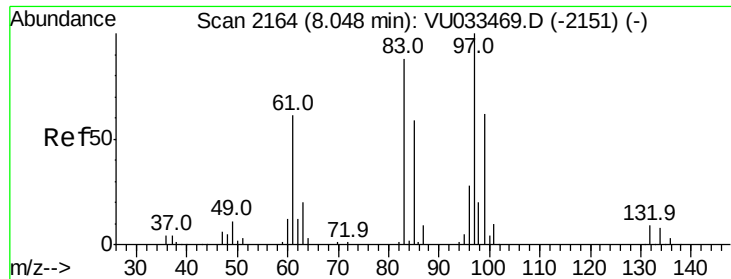
1000

0

7.80 7.85 7.90 7.95

Time-->





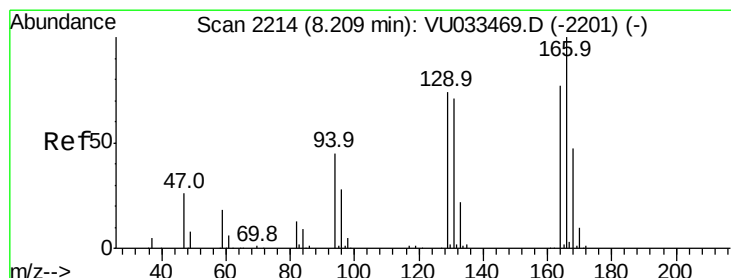
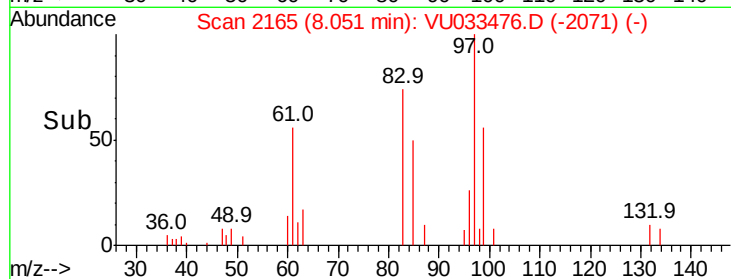
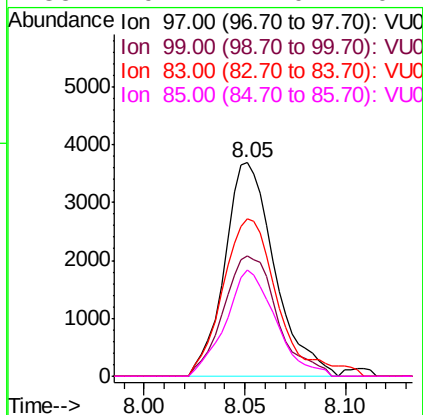
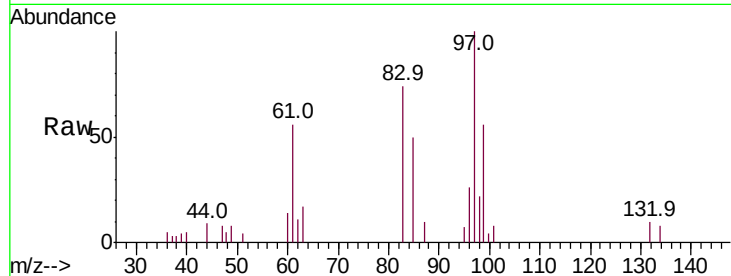
#45
1,1,2-Trichloroethane
Concen: 2.803 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion:	97	Resp:	6397
Ion	Ratio	Lower	Upper
97	100		
99	56.3	43.3	80.5
83	73.8	61.3	113.9
85	49.7	41.0	76.2

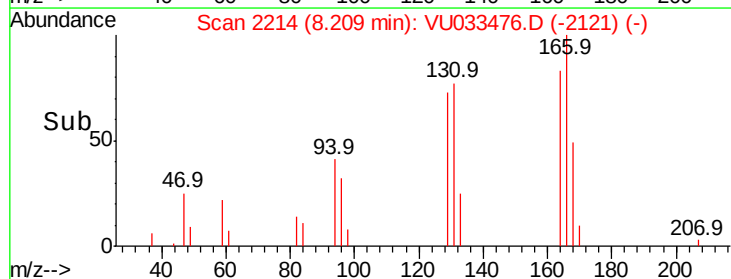
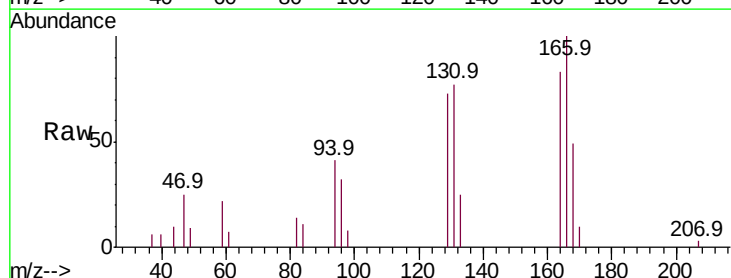
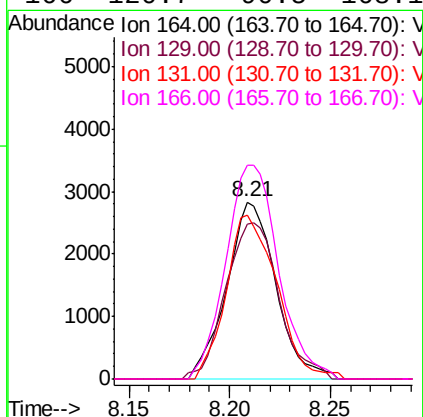
Manual Integrations
APPROVED

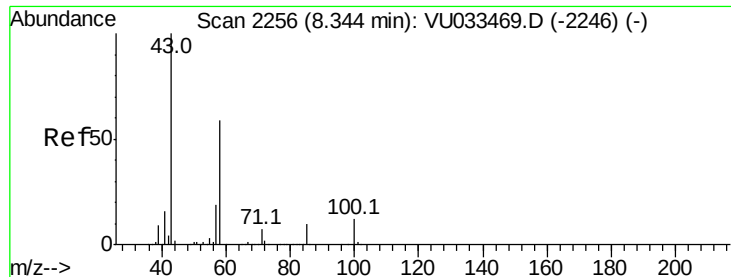
MMDadoda
7/30/2019 3:01:02 PM



#46
Tetrachloroethene
Concen: 2.563 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion:	164	Resp:	4835
Ion	Ratio	Lower	Upper
164	100		
129	87.6	66.6	123.8
131	92.5	63.9	118.7
166	120.7	90.5	168.1





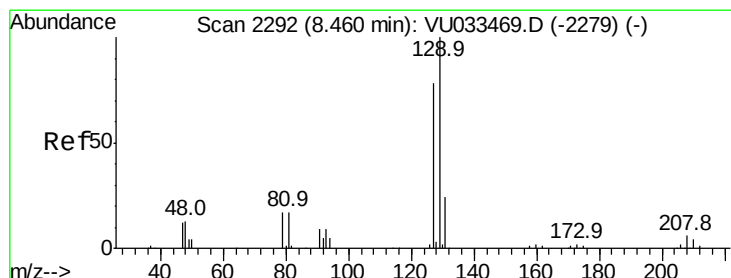
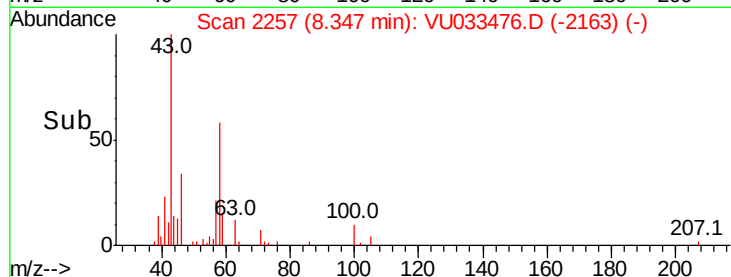
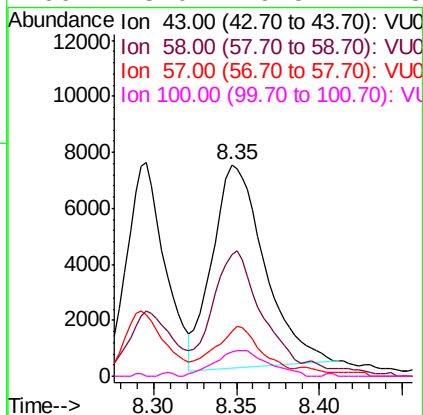
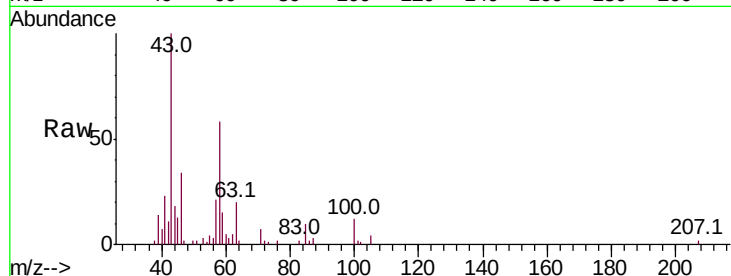
#48
2-Hexanone
Concen: 6.209 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	53.9	46.6	69.8	
57	17.9	16.0	24.0	
100	13.0	9.5	14.3	

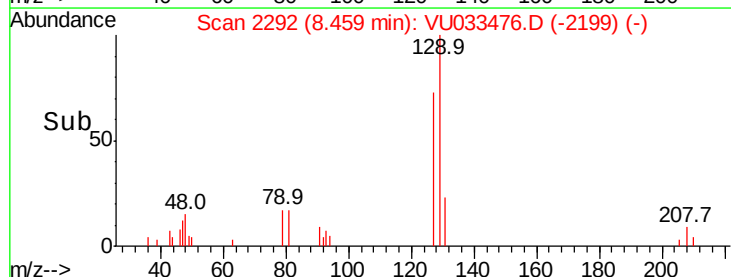
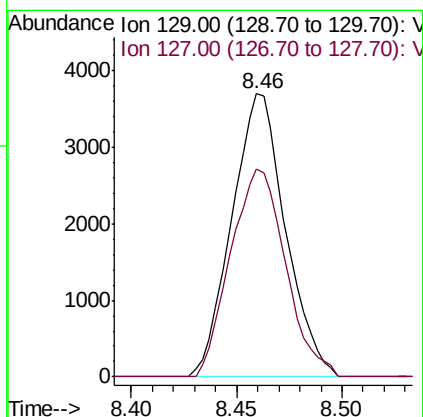
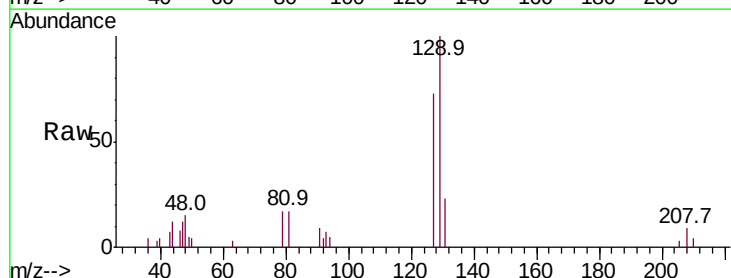
Manual Integrations
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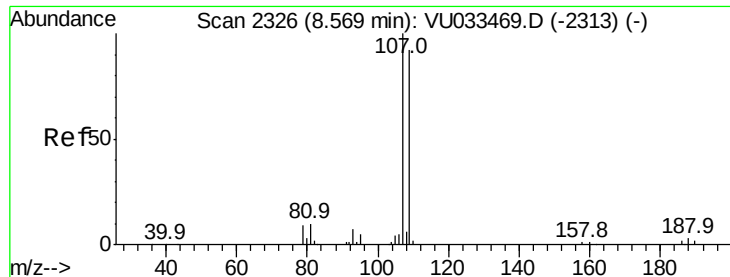
MMDadoda
7/30/2019 3:01:02 PM



#49
Dibromochloromethane
Concen: 2.559 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	73.4	54.5	101.1	





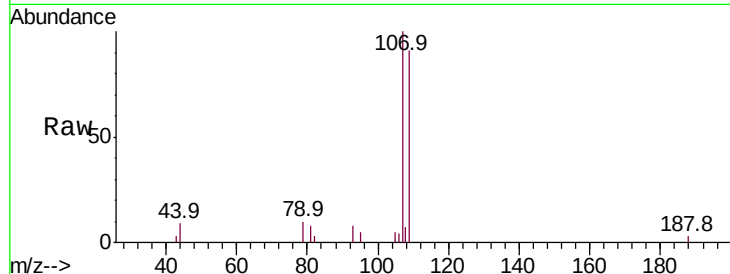
#50
1,2-Dibromoethane
Concen: 2.579 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.5	64.7	120.1
188	3.0	2.8	4.2

Manual Integrations
APPROVED

MMDadoda
7/30/2019 3:01:02 PM

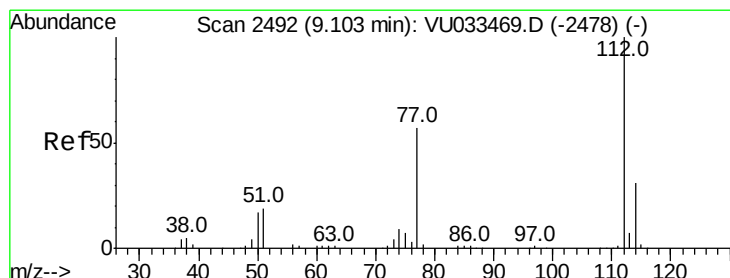
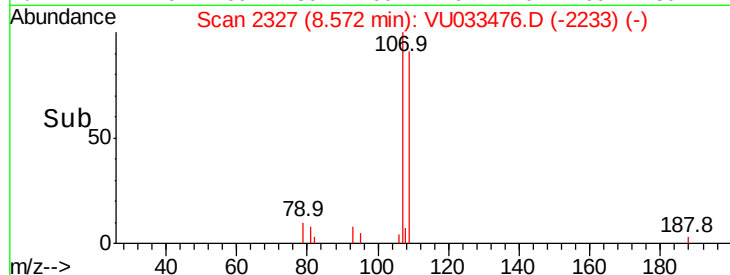
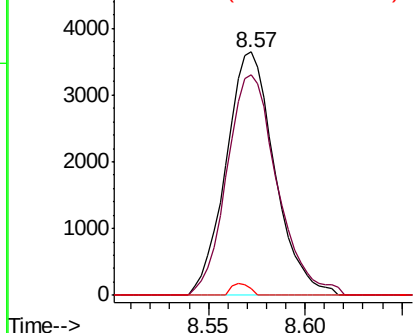


Abundance

Ion 107.00 (106.70 to 107.70): V

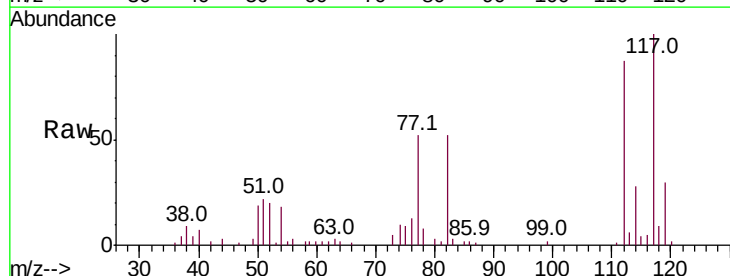
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 2.540 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	21.9	40.7
77	60.3	46.1	69.1

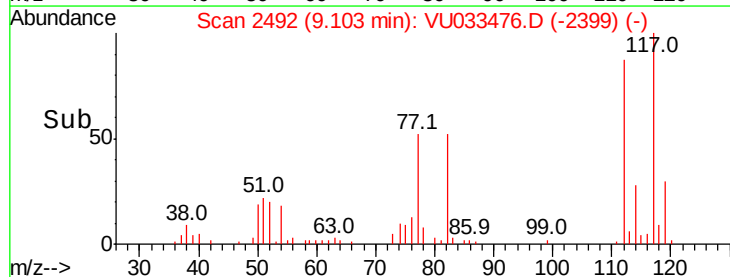
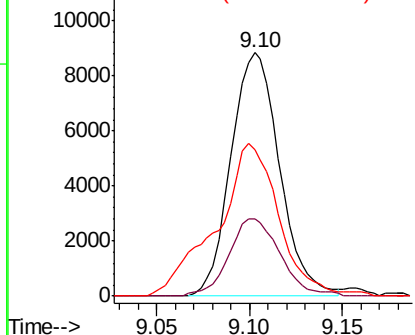


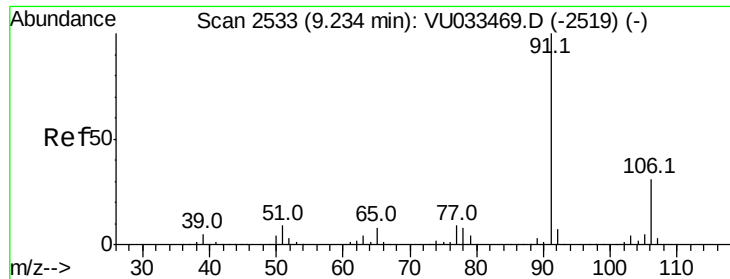
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 2.312 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 23998

Ion Ratio Lower Upper

91 100

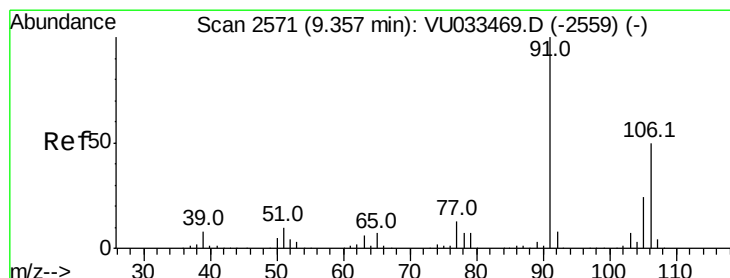
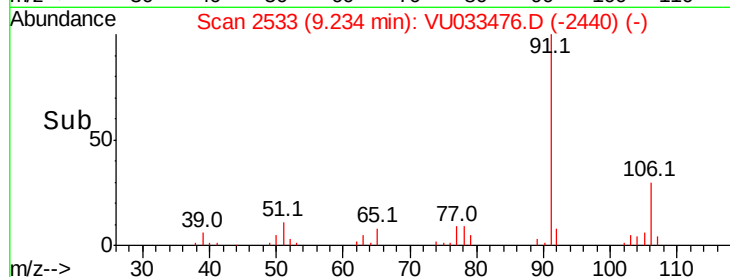
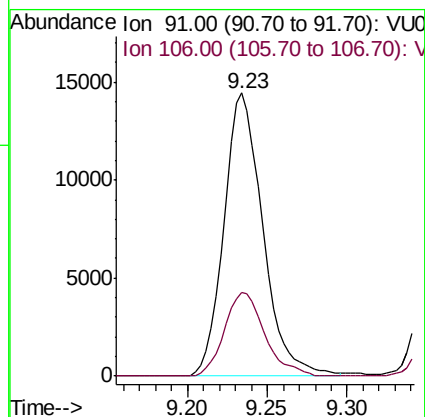
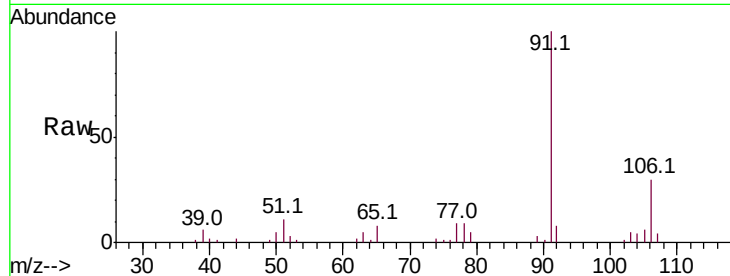
106 29.5 21.6 40.2

Manual Integrations

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MMDadoda

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#53

m,p-Xylene

Concen: 2.334 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033476.D

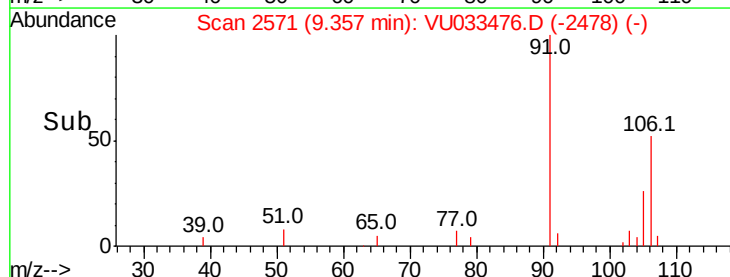
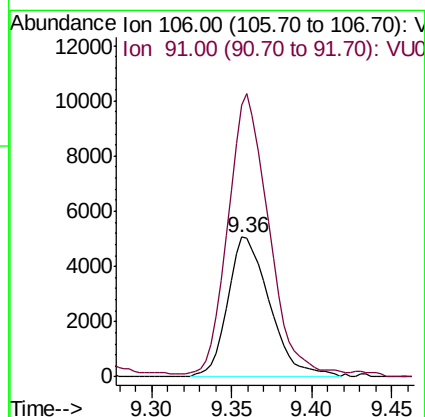
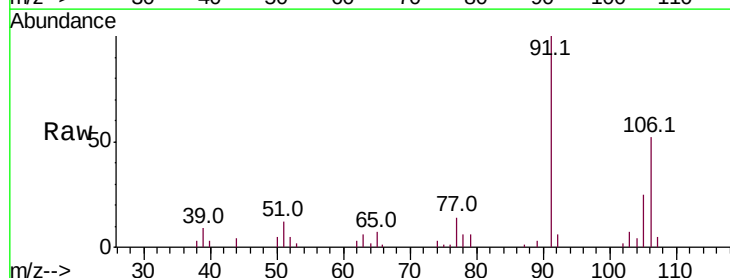
Acq: 29 Jul 2019 18:28

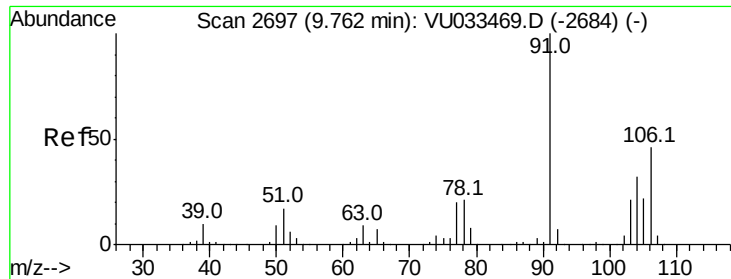
Tgt Ion: 106 Resp: 9109

Ion Ratio Lower Upper

106 100

91 194.0 140.7 261.3





#54

o-xylene

Concen: 2.176 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:106 Resp: 8327

Ion Ratio Lower Upper

106 100

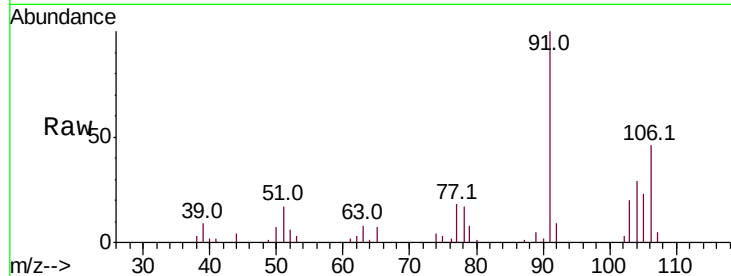
91 216.4 151.1 280.7

Manual Integrations

APPROVED

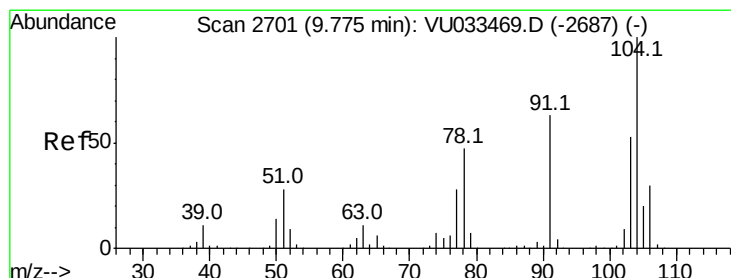
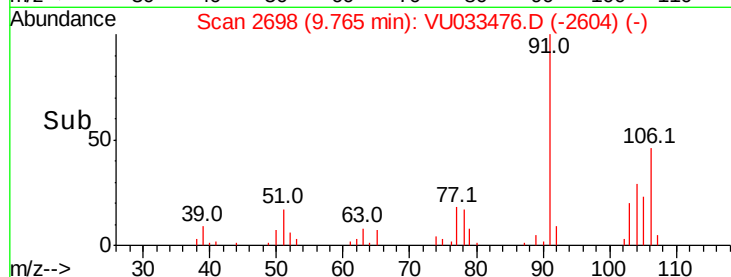
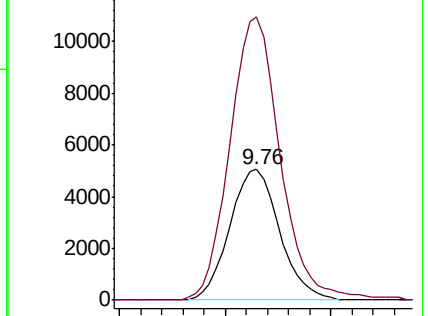
MMDadoda

7/30/2019 3:01:02 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.125 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033476.D

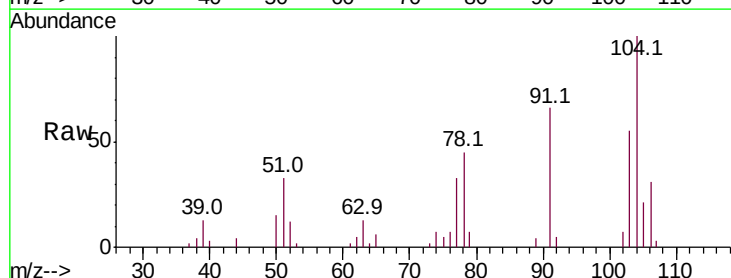
Acq: 29 Jul 2019 18:28

Tgt Ion:104 Resp: 13797

Ion Ratio Lower Upper

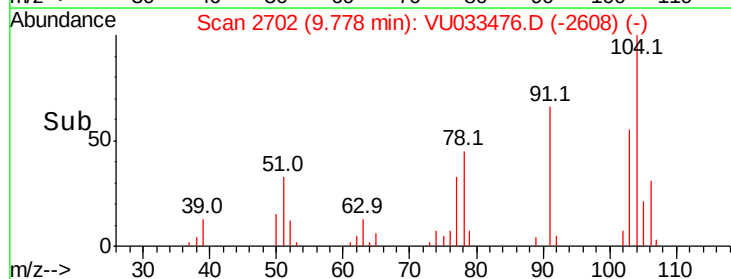
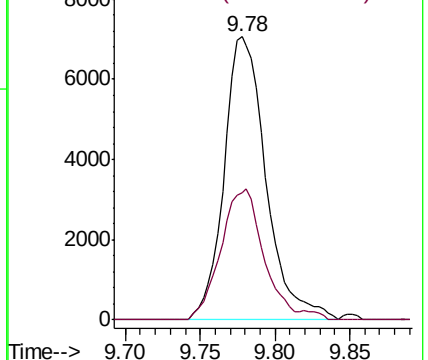
104 100

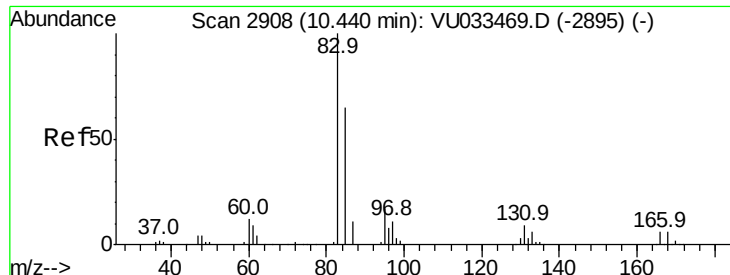
78 45.1 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





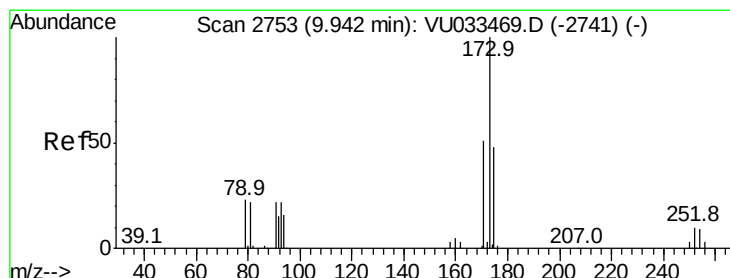
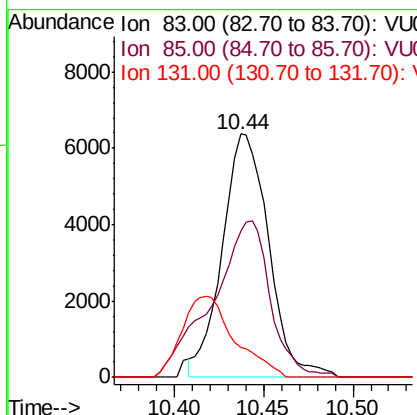
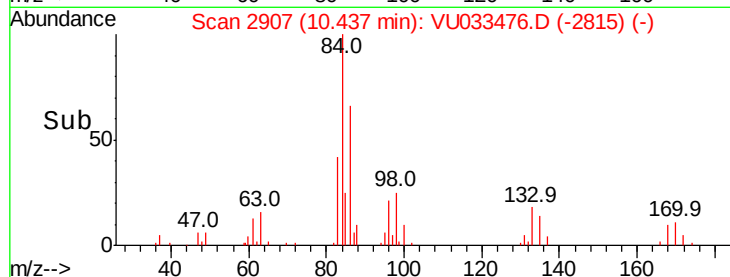
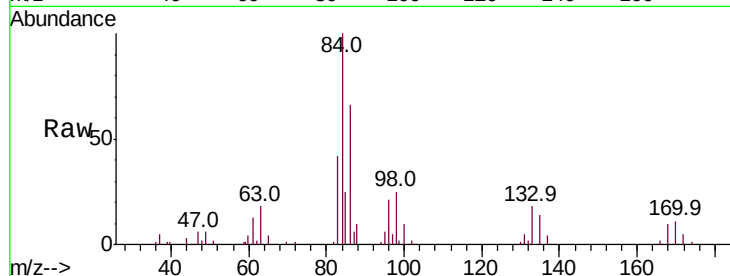
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.853 ug/L
 RT: 10.44 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
83	100		
85	60.3	45.9	85.3
131	12.5	7.8	11.8#

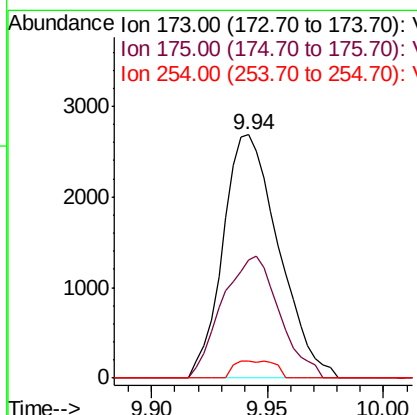
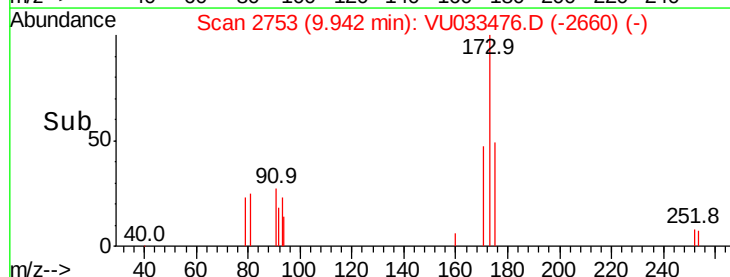
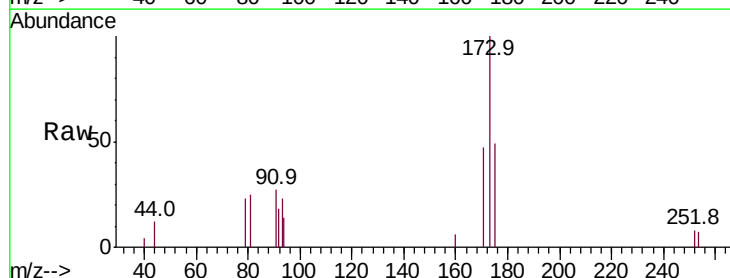
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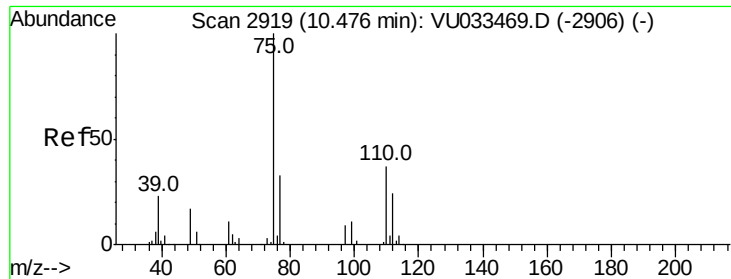
MMDadoda
 7/30/2019 3:01:02 PM



#59
 Bromoform
 Concen: 2.653 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
173	100		
175	51.4	38.1	57.1
254	3.0	7.3	10.9#





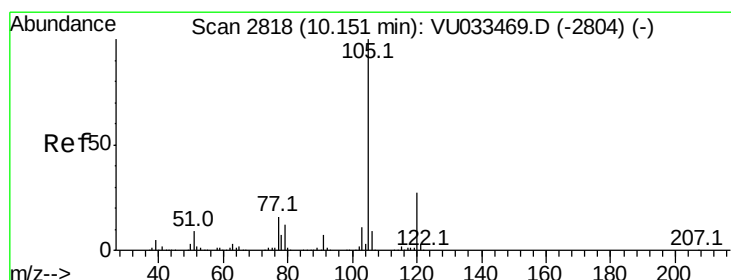
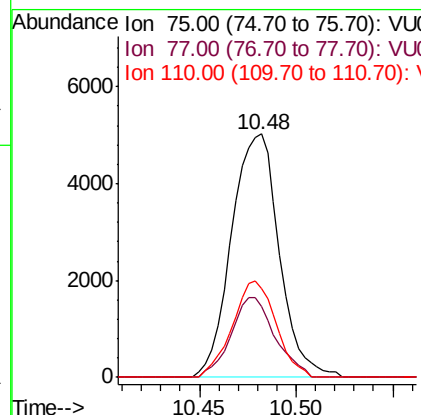
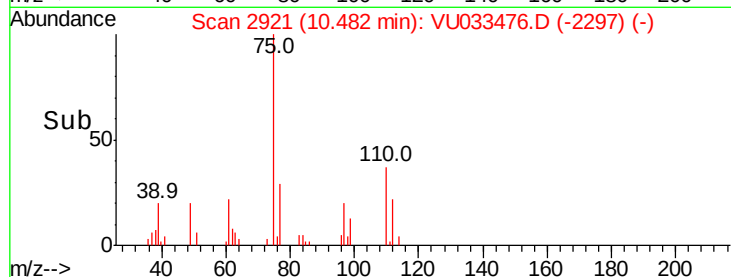
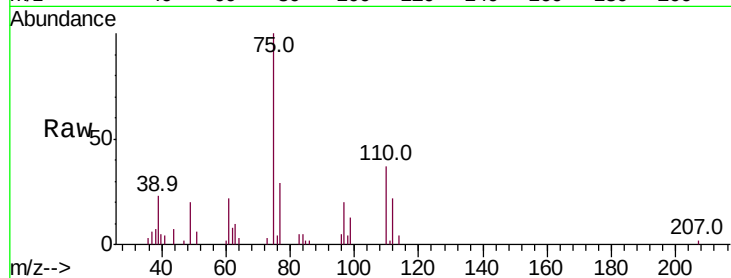
#60
 1,2,3-Trichloropropane
 Concen: 3.128 ug/L
 RT: 10.48 min Scan# 2921
 Delta R.T. 0.01 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.9	38.9
110	36.1	30.2	45.4

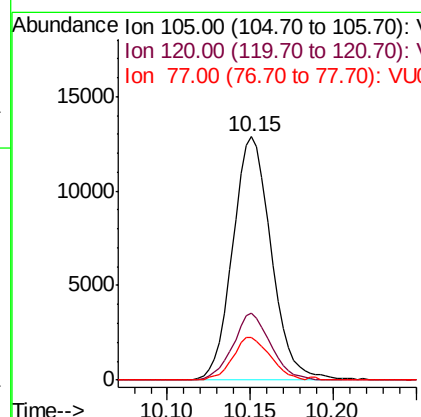
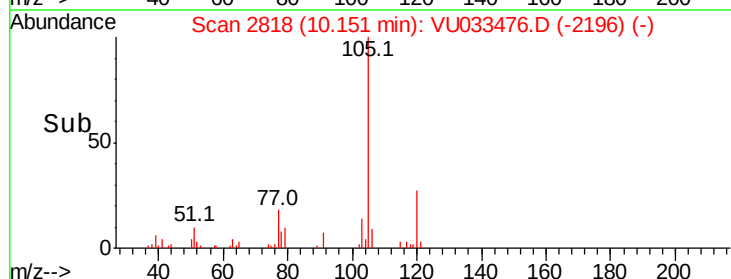
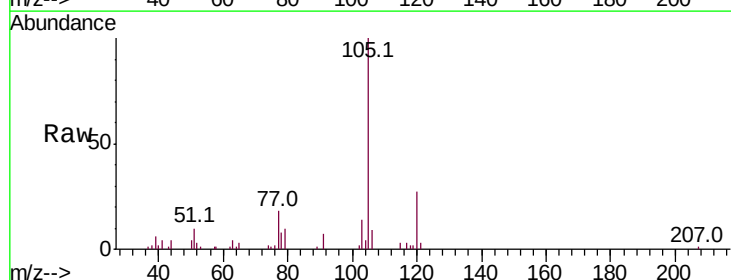
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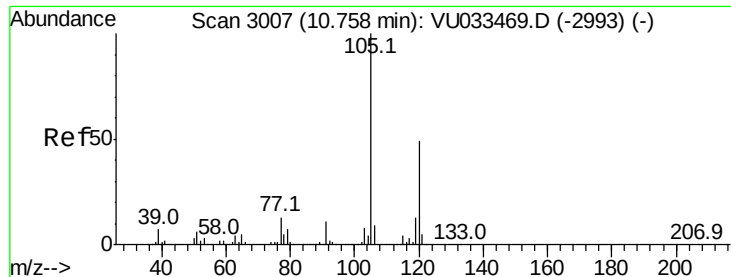
MMDadoda
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#61
 Isopropylbenzene
 Concen: 2.411 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.7	32.5
77	17.1	12.6	19.0





#62

1,3,5-Trimethylbenzene

Concen: 2.239 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. -0.00 min

Lab File: VU033476.D

Acq: 29 Jul 2019 18:28

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:105 Resp: 15695

Ion Ratio Lower Upper

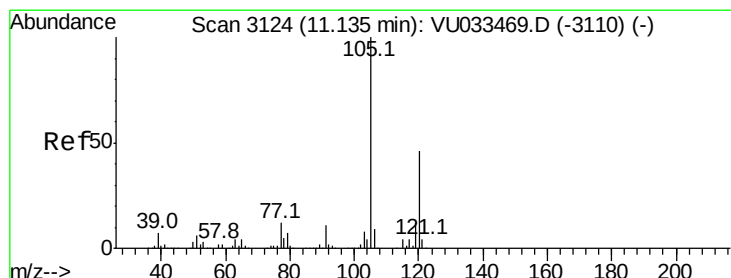
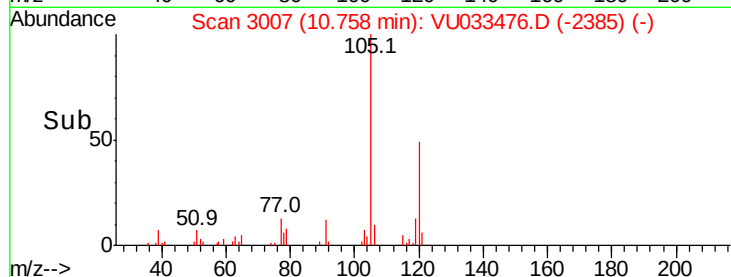
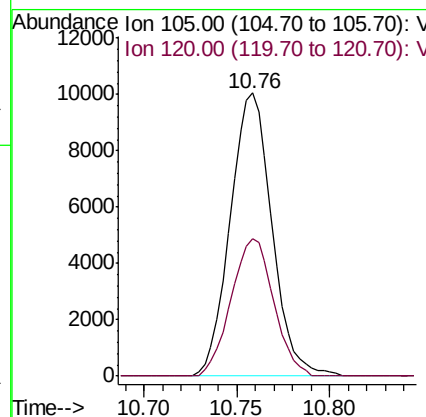
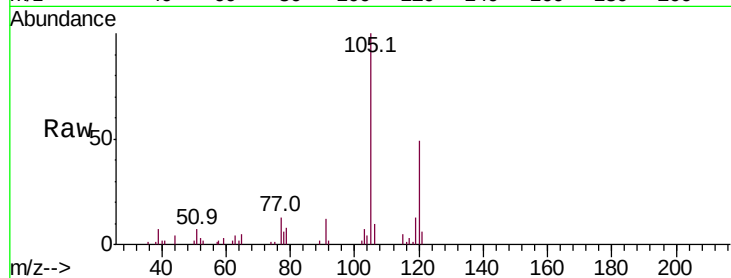
105 100

120 49.5 39.0 58.6

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#63

1,2,4-Trimethylbenzene

Concen: 2.090 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. -0.00 min

Lab File: VU033476.D

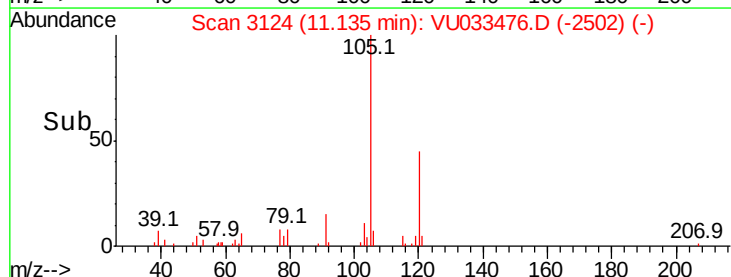
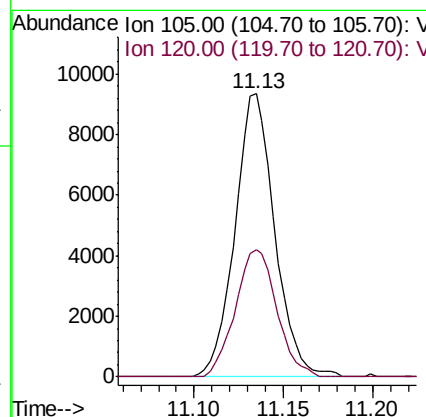
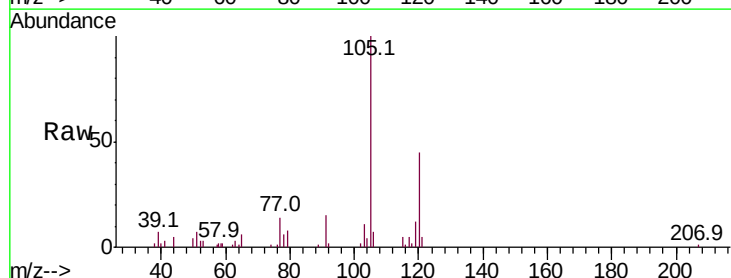
Acq: 29 Jul 2019 18:28

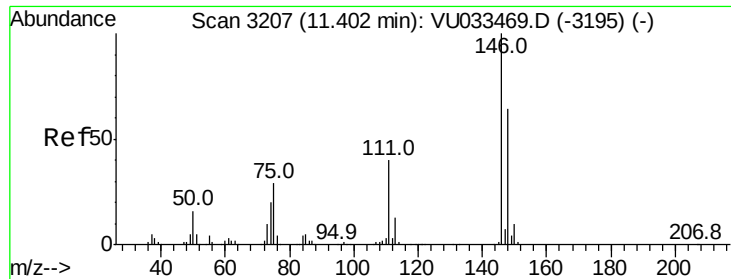
Tgt Ion:105 Resp: 14529

Ion Ratio Lower Upper

105 100

120 46.8 36.6 55.0





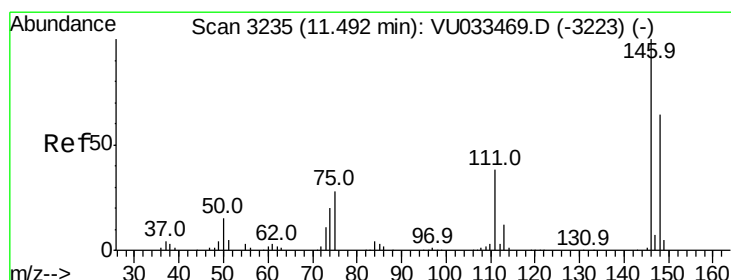
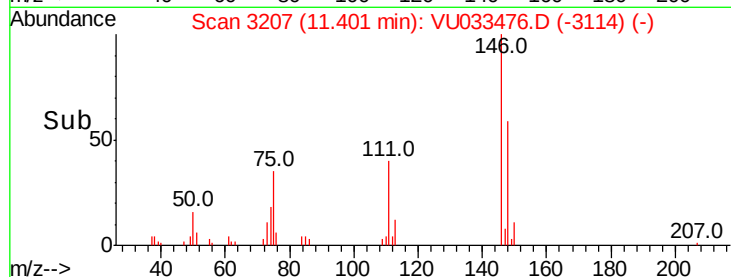
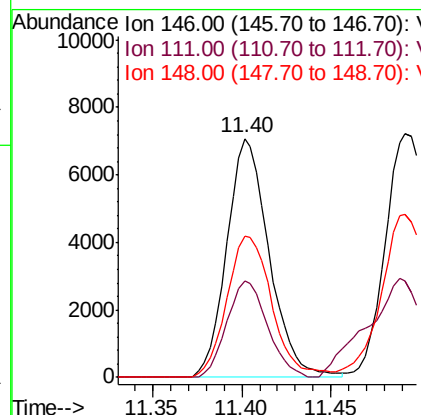
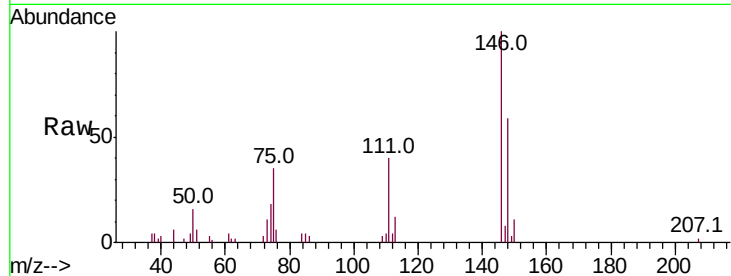
#64
 1,3-Dichlorobenzene
 Concen: 2.641 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	28.2	52.4
148	59.1	44.4	82.5

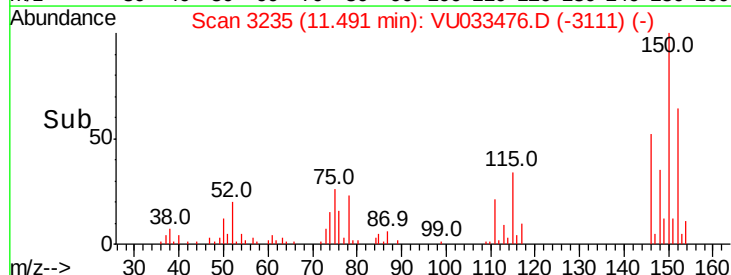
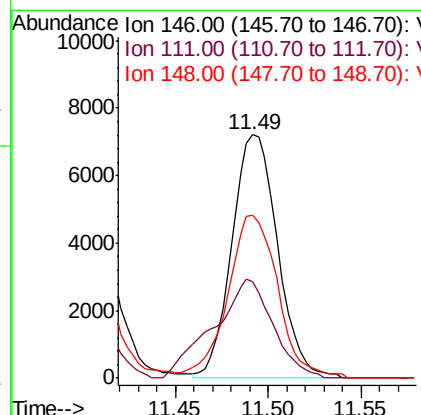
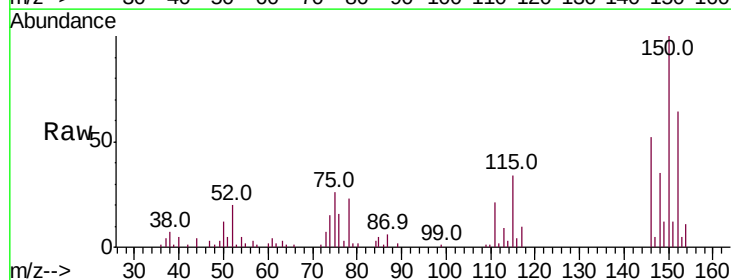
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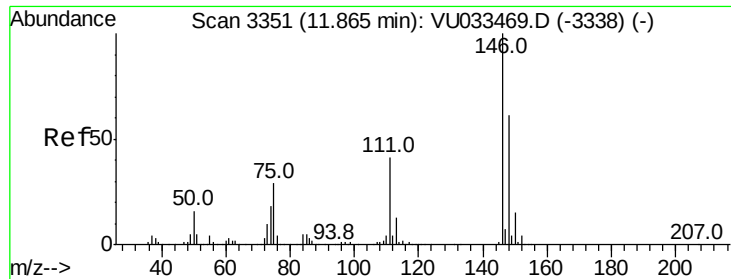
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#65
 1,4-Dichlorobenzene
 Concen: 2.711 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	27.0	50.2
148	66.9	44.7	82.9





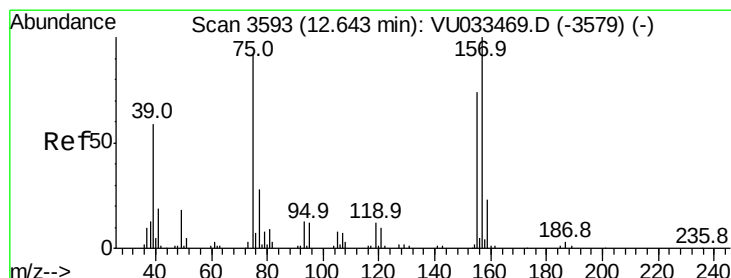
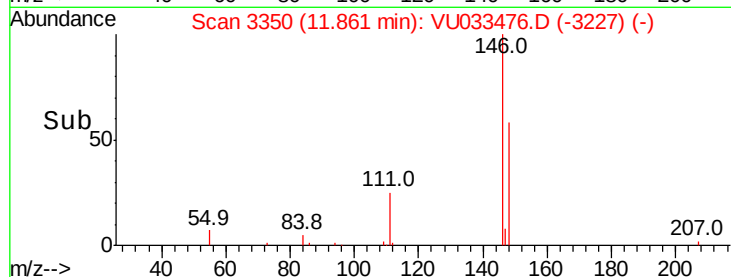
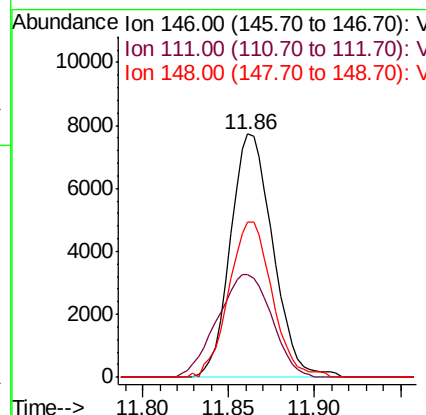
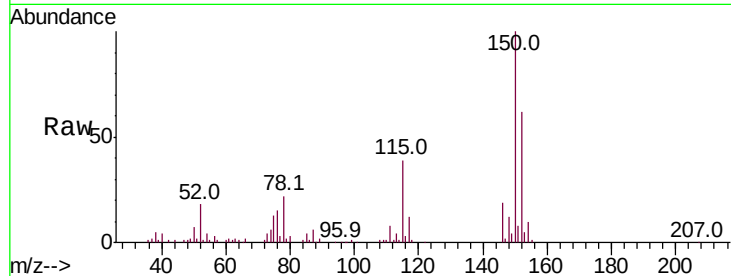
#67
 1,2-Dichlorobenzene
 Concen: 2.998 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	32.8	49.2
148	63.7	49.2	73.8

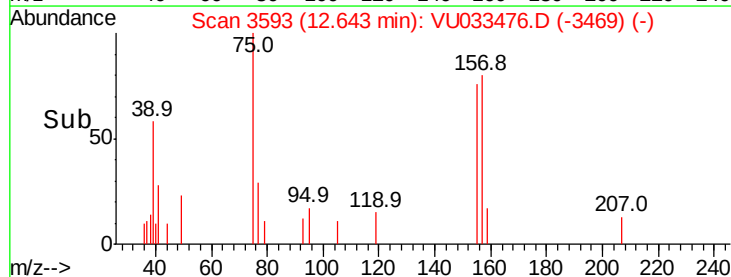
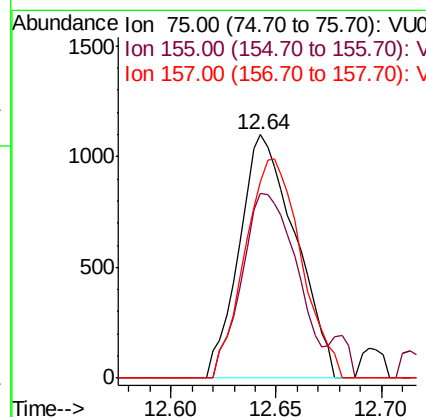
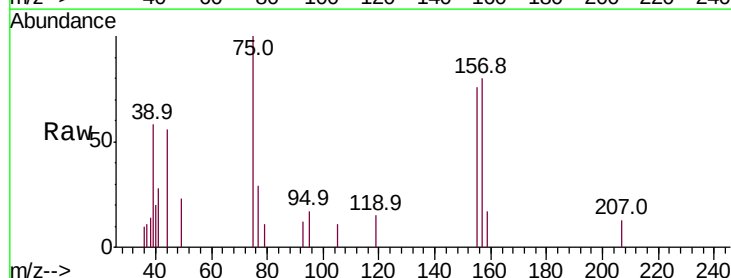
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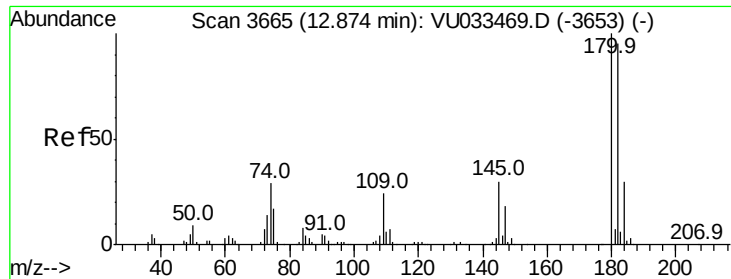
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.657 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.8	64.8	97.2
157	80.4	87.1	130.7#





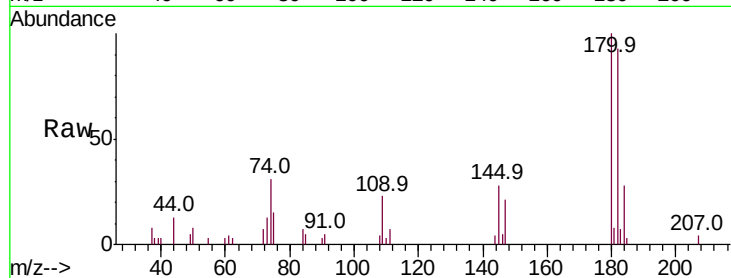
#69
 1,3,5-Trichlorobenzene
 Concen: 2.400 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.3	76.2	114.4
184	26.9	24.1	36.1
145	27.1	23.7	35.5

Manual Integrations
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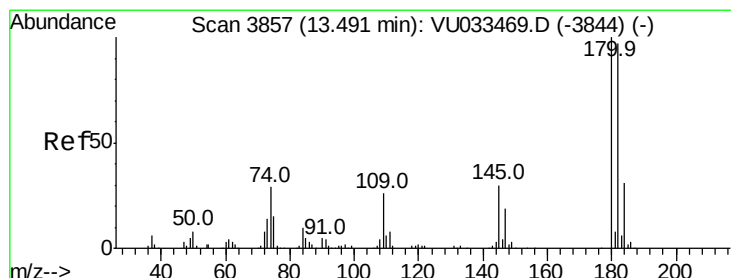
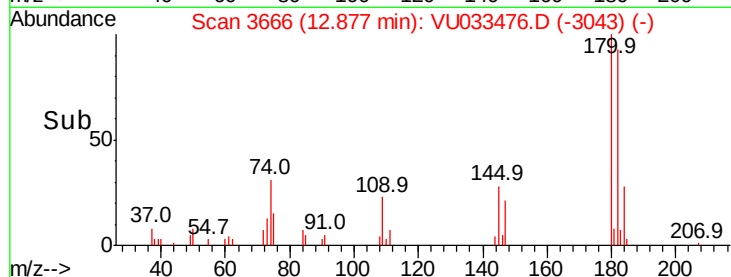
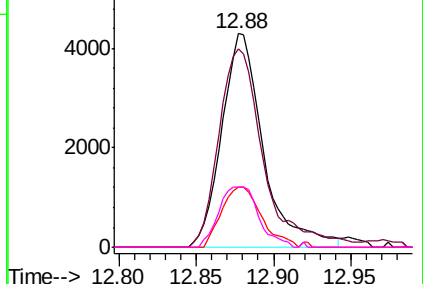
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.685 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VU033476.D
 Acq: 29 Jul 2019 18:28

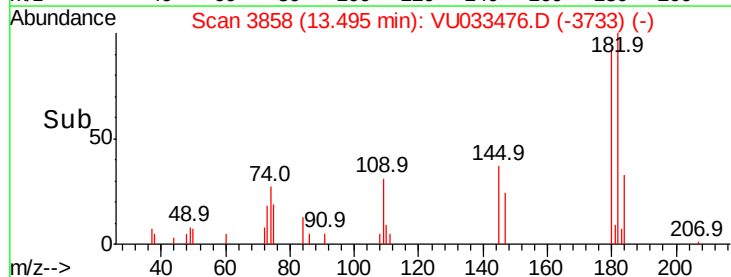
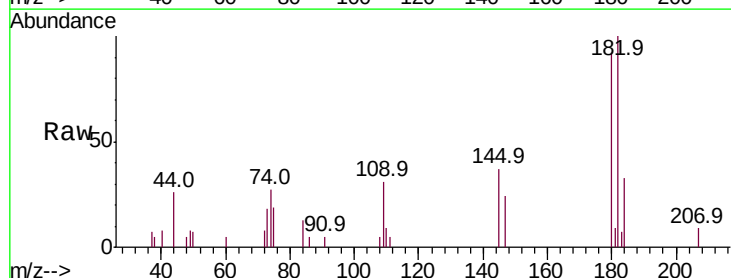
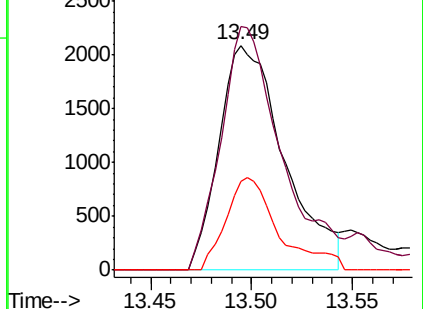
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	77.5	116.3
145	31.0	23.9	35.9

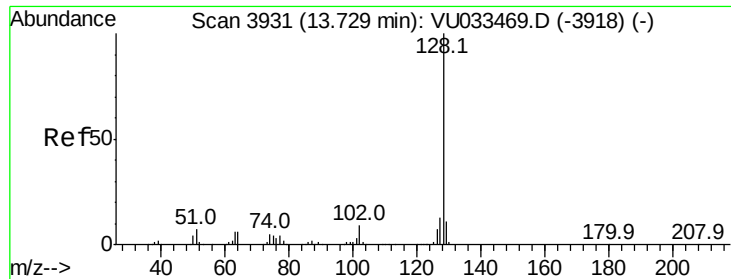
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





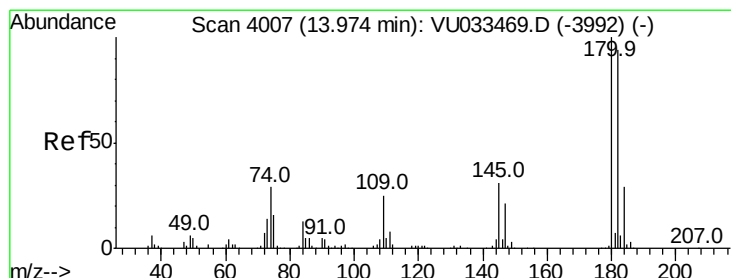
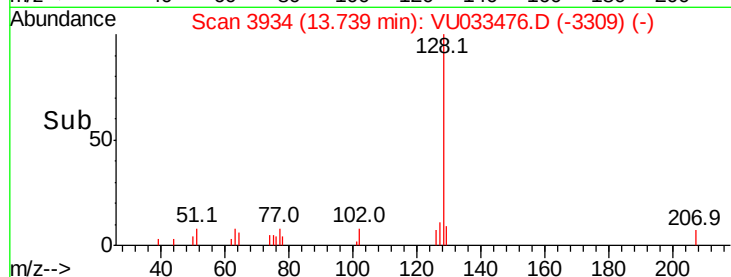
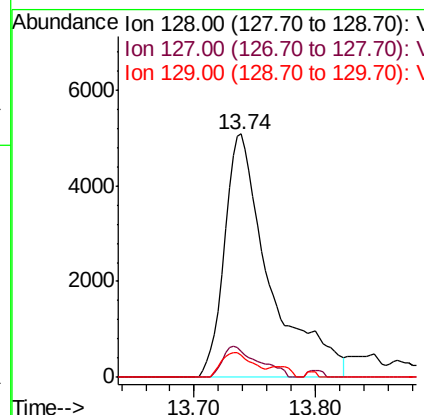
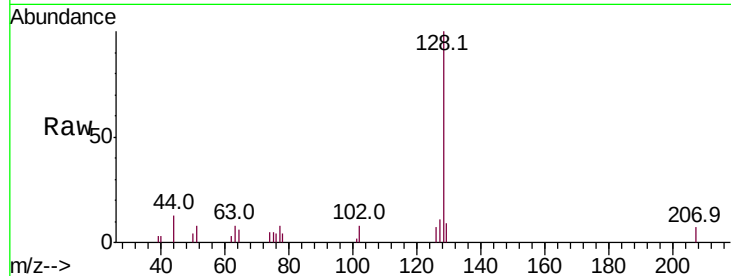
#71
Naphthalene
Concen: 1.618 ug/L m
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.0	10.8	16.2#
129	7.1	8.7	13.1#

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#72
1,2,3-Trichlorobenzene
Concen: 2.050 ug/L m
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033476.D
Acq: 29 Jul 2019 18:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.8	76.4	114.6
145	28.5	24.9	37.3

