

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082919\
 Data File : VU034016.D
 Acq On : 28 Aug 2019 12:02
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/29/2019 8:27:30 AM

Quant Time: Aug 29 03:42:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 03:17:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	433338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	671913	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	637971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	320562	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	29869	5.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	11.86%	
35) Dibromofluoromethane	4.86	113	26754	5.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	11.68%	
50) Toluene-d8	7.55	98	82256	4.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	9.66%	
62) 4-Bromofluorobenzene	10.29	95	35249	5.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	19670	4.397	ug/l	98
3) Chloromethane	1.32	50	31671	5.596	ug/l	97
4) Vinyl Chloride	1.40	62	28230	5.973	ug/l	100
5) Bromomethane	1.60	94	17894	6.483	ug/l	97
6) Chloroethane	1.68	64	18545	6.597	ug/l	99
7) Trichlorofluoromethane	1.87	101	33029	5.498	ug/l	100
8) Diethyl Ether	2.09	74	13912	5.961	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.27	101	21895	5.763	ug/l	100
10) Methyl Iodide	2.39	142	26187	4.585	ug/l	100
11) Tert butyl alcohol	2.82	59	29425	22.886	ug/l	98
12) 1,1-Dichloroethene	2.27	96	21698	5.465	ug/l	99
13) Acrolein	2.18	56	15847	36.490	ug/l	100
14) Allyl chloride	2.58	41	40320	5.664	ug/l	98
15) Acrylonitrile	2.92	53	70654	26.689	ug/l	99
16) Acetone	2.31	43	75276	30.888	ug/l	100
17) Carbon Disulfide	2.46	76	68661	5.282	ug/l	99
18) Methyl Acetate	2.60	43	35187	5.880	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	68823	5.171	ug/l	98
20) Methylene Chloride	2.68	84	27555	5.450	ug/l	99
21) trans-1,2-Dichloroethene	2.96	96	24240	5.400	ug/l	96
22) Diisopropyl ether	3.55	45	74721	5.704	ug/l #	82
23) Vinyl Acetate	3.50	43	304321	27.261	ug/l	100
24) 1,1-Dichloroethane	3.42	63	45616	5.639	ug/l	99
25) 2-Butanone	4.24	43	95873	27.409	ug/l	98
26) 2,2-Dichloropropane	4.20	77	36668	5.390	ug/l	98
27) cis-1,2-Dichloroethene	4.20	96	26506	5.265	ug/l	100
28) Bromochloromethane	4.52	49	22154	5.896	ug/l	99
29) Tetrahydrofuran	4.62	42	55909	25.656	ug/l	97
30) Chloroform	4.65	83	44972	5.467	ug/l	98
31) Cyclohexane	4.97	56	45868	6.128	ug/l #	84
32) 1,1,1-Trichloroethane	4.89	97	36513	5.302	ug/l	99
36) 1,1-Dichloropropene	5.11	75	31754	5.045	ug/l	98
37) Ethyl Acetate	4.37	43	33052	5.150	ug/l	99
38) Carbon Tetrachloride	5.11	117	31058	4.895	ug/l	96

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 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

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 ClientSampleId :
 VSTDIC005

Manual Integrations
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	36764	4.942	ug/l	95
40) Benzene	5.37	78	100842	5.382	ug/l	99
41) Methacrylonitrile	4.53	41	17026	5.094	ug/l	96
42) 1,2-Dichloroethane	5.38	62	34081	5.360	ug/l	97
43) Isopropyl Acetate	5.53	43	50169	5.084	ug/l	100
44) Trichloroethene	6.17	130	26488	5.039	ug/l	99
45) 1,2-Dichloropropane	6.41	63	27563	5.456	ug/l	100
46) Dibromomethane	6.54	93	17627	5.193	ug/l	97
47) Bromodichloromethane	6.74	83	34212	5.274	ug/l	95
48) Methyl methacrylate	6.61	41	23550	4.970	ug/l	97
49) 1,4-Dioxane	6.60	88	11945	95.349	ug/l	97
51) 4-Methyl-2-Pentanone	7.44	43	178371	26.108	ug/l	99
52) Toluene	7.62	92	59738	5.064	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	35121	4.859	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	39791	5.115	ug/l	96
55) 1,1,2-Trichloroethane	8.05	97	25469	5.085	ug/l	97
56) Ethyl methacrylate	8.01	69	33777	4.732	ug/l	98
57) 1,3-Dichloropropane	8.23	76	42611	5.230	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	64035	24.391	ug/l	100
59) 2-Hexanone	8.35	43	135324	25.793	ug/l	94
60) Dibromochloromethane	8.46	129	26013	4.671	ug/l	99
61) 1,2-Dibromoethane	8.57	107	26598	5.060	ug/l	97
64) Tetrachloroethene	8.21	164	22939	4.549	ug/l	99
65) Chlorobenzene	9.10	112	68005	5.101	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	24586	4.991	ug/l	98
67) Ethyl Benzene	9.23	91	111835	5.005	ug/l	99
68) m/p-Xylenes	9.36	106	84822	9.873	ug/l	96
69) o-Xylene	9.76	106	40040	4.863	ug/l	98
70) Styrene	9.78	104	67086	4.758	ug/l	99
71) Bromoform	9.94	173	20590	4.722	ug/l #	98
73) Isopropylbenzene	10.15	105	106811	5.048	ug/l	100
74) N-amyl acetate	10.00	43	41235	5.070	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.44	83	43002	5.591	ug/l	98
76) 1,2,3-Trichloropropane	10.48	75	38307m	5.811	ug/l	
77) Bromobenzene	10.44	156	29439	4.969	ug/l	97
78) n-propylbenzene	10.57	91	121696	5.051	ug/l	99
79) 2-Chlorotoluene	10.64	91	76367	5.248	ug/l	100
80) 1,3,5-Trimethylbenzene	10.76	105	90939	5.024	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.50	75	8780m	3.960	ug/l	
82) 4-Chlorotoluene	10.76	91	86417	5.144	ug/l	99
83) tert-Butylbenzene	11.08	119	87244	4.947	ug/l	98
84) 1,2,4-Trimethylbenzene	11.13	105	87805	4.929	ug/l	99
85) sec-Butylbenzene	11.31	105	109055	5.187	ug/l	97
86) p-Isopropyltoluene	11.46	119	94531	4.830	ug/l	97
87) 1,3-Dichlorobenzene	11.40	146	52496	5.000	ug/l	98
88) 1,4-Dichlorobenzene	11.49	146	52537	4.962	ug/l	95
89) n-Butylbenzene	11.87	91	77766	4.704	ug/l	99
90) Hexachloroethane	12.13	117	16466	5.068	ug/l	96
91) 1,2-Dichlorobenzene	11.86	146	49885	4.837	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	7758m	5.087	ug/l	

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MSVOA_U
ClientSampleId :
VSTDICC005

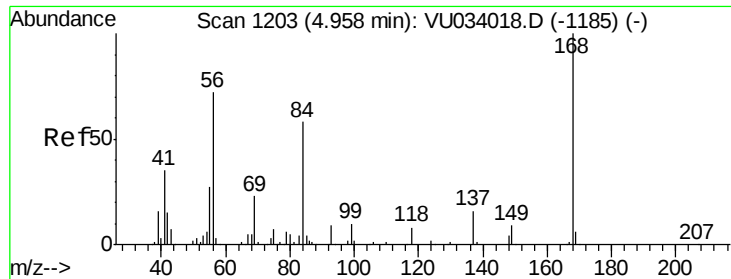
Manual Integrations
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8/29/2019 8:27:30 AM

Quant Time: Aug 29 03:42:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 03:17:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	26396m	4.181	ug/l	
94) Hexachlorobutadiene	13.68	225	19712	4.710	ug/l	98
95) Naphthalene	13.73	128	60983	3.643	ug/l	98
96) 1,2,3-Trichlorobenzene	13.98	180	28407m	4.355	ug/l	

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 433338

Ion Ratio Lower Upper

168 100

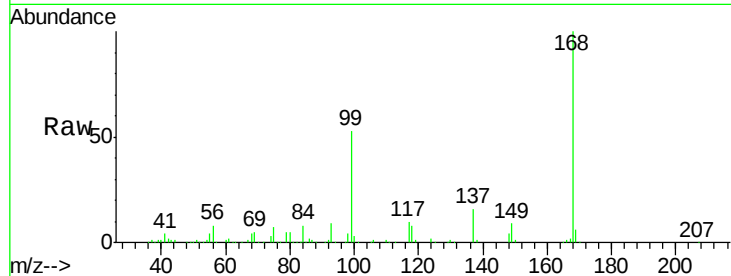
99 52.7 42.3 63.5

Manual Integrations

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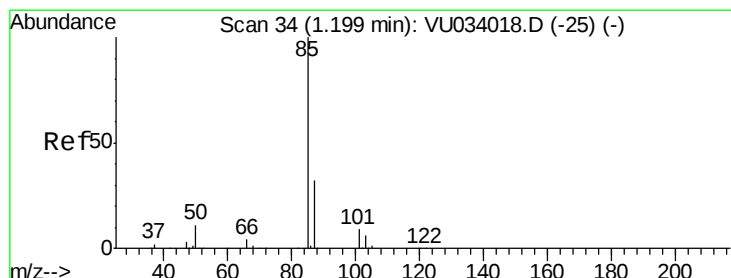
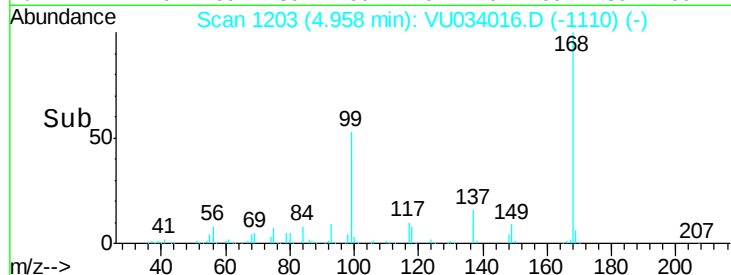
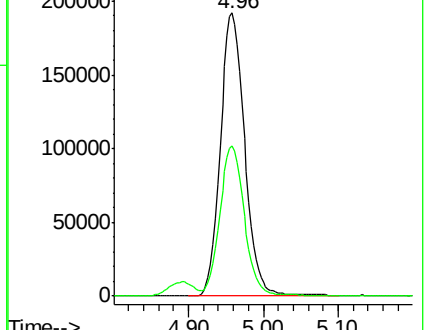
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Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)



#2

Dichlorodifluoromethane

Concen: 4.397 ug/l

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034016.D

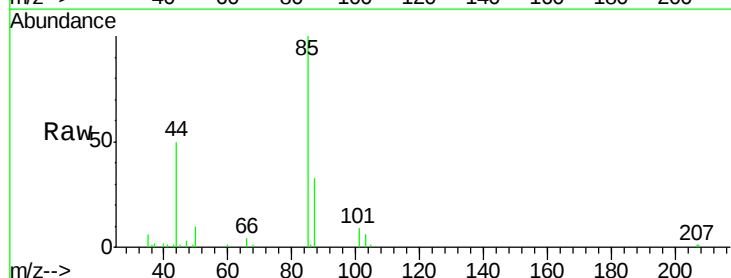
Acq: 28 Aug 2019 12:02

Tgt Ion: 85 Resp: 19670

Ion Ratio Lower Upper

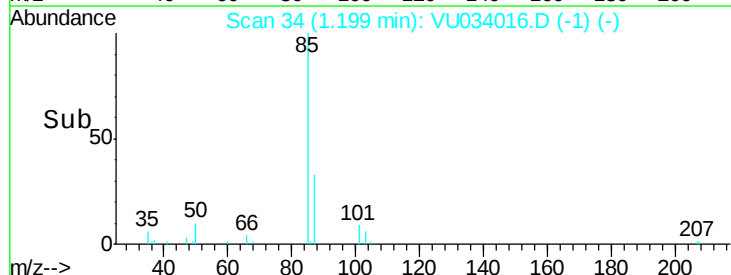
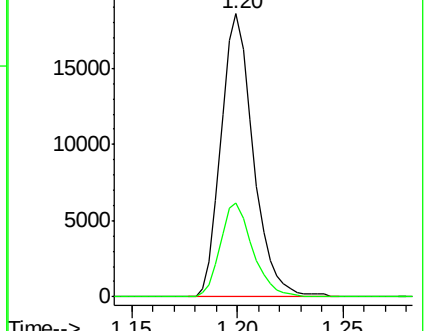
85 100

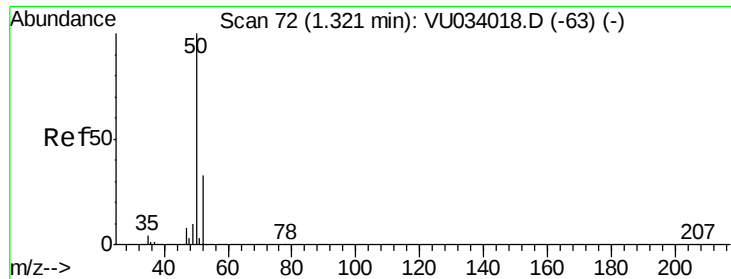
87 33.2 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034018.D (-25) (-)

Ion 86.90 (86.60 to 87.60): VU034018.D (-25) (-)





#3

Chloromethane

Concen: 5.596 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 31671

Ion Ratio Lower Upper

50 100

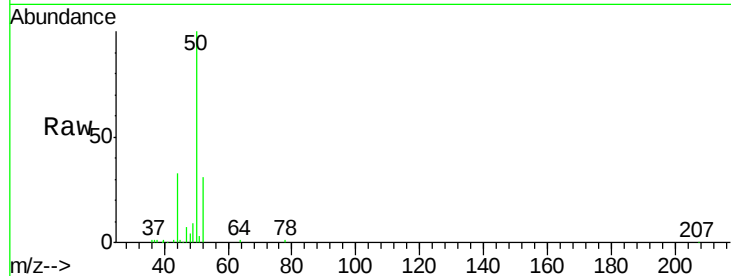
52 31.2 26.2 39.4

Manual Integrations

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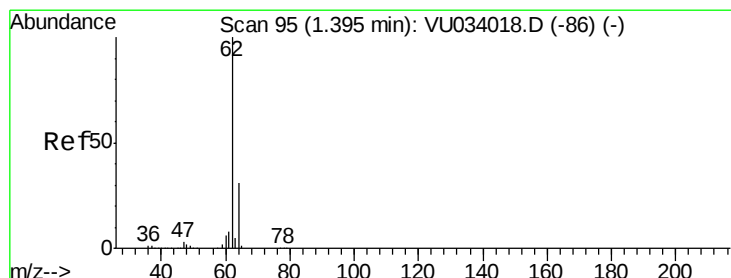
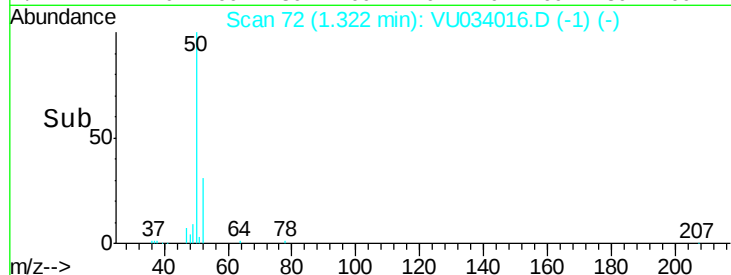
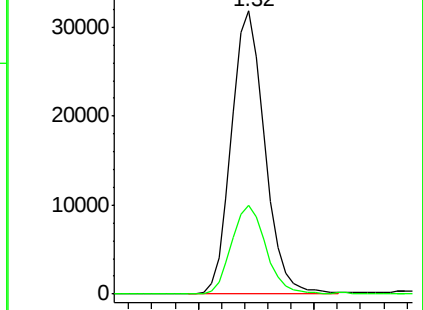
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Abundance Ion 49.90 (49.60 to 50.60): VU034016.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034016.D (-1) (-)



#4

Vinyl Chloride

Concen: 5.973 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034016.D

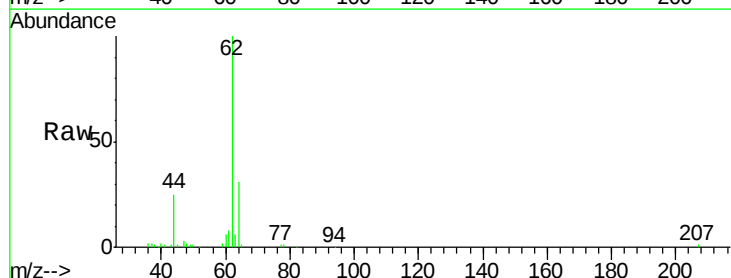
Acq: 28 Aug 2019 12:02

Tgt Ion: 62 Resp: 28230

Ion Ratio Lower Upper

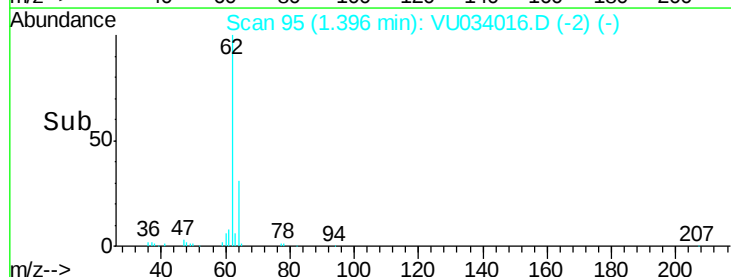
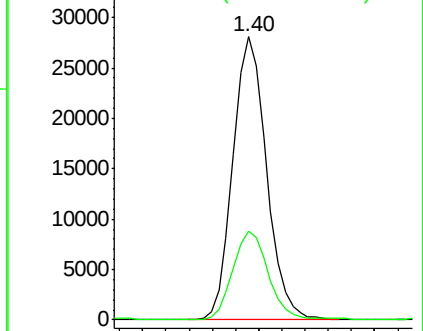
62 100

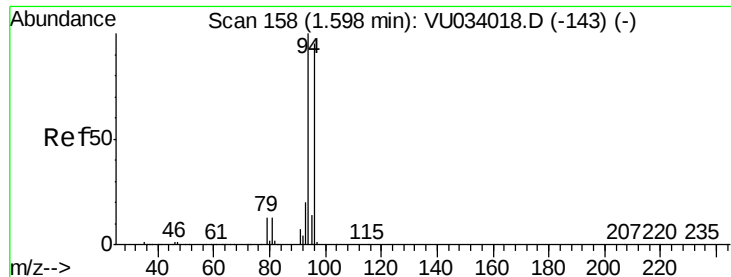
64 31.4 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VU034016.D (-2) (-)

Ion 63.90 (63.60 to 64.60): VU034016.D (-2) (-)





#5

Bromomethane

Concen: 6.483 ug/l

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 17894

Ion Ratio Lower Upper

94 100

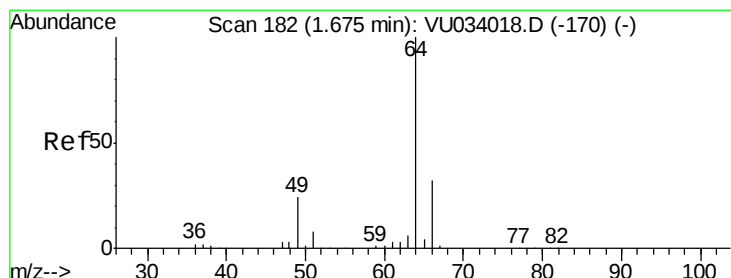
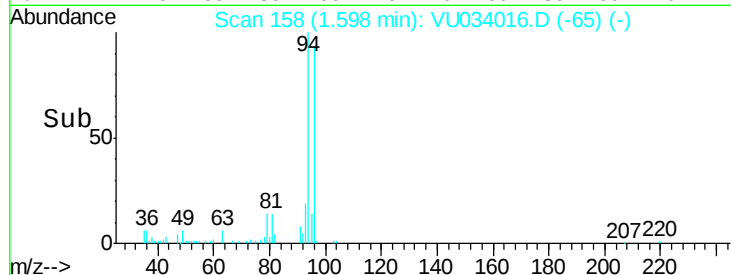
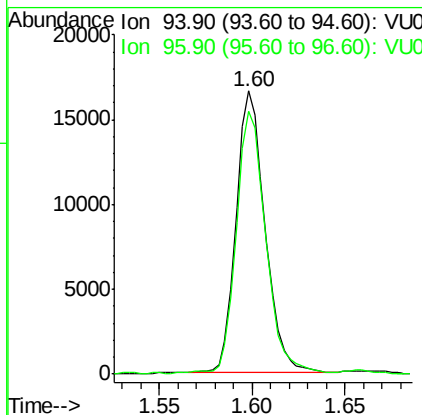
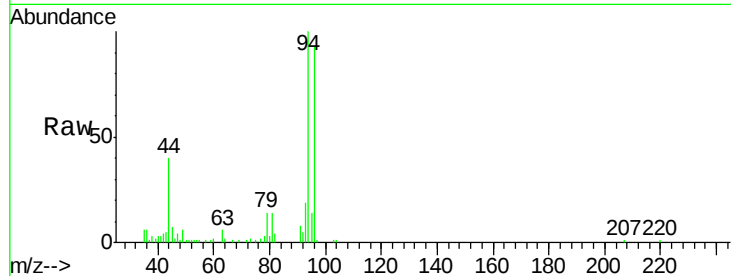
96 92.5 76.3 114.5

Manual Integrations

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#6

Chloroethane

Concen: 6.597 ug/l

RT: 1.68 min Scan# 182

Delta R.T. 0.00 min

Lab File: VU034016.D

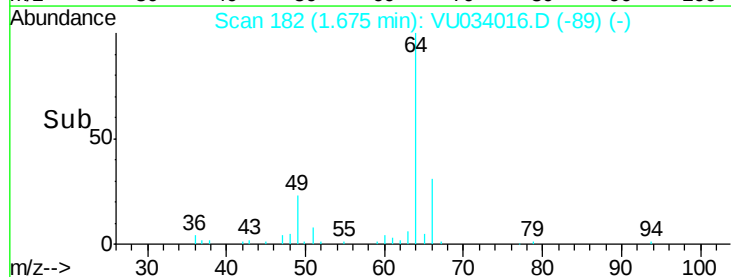
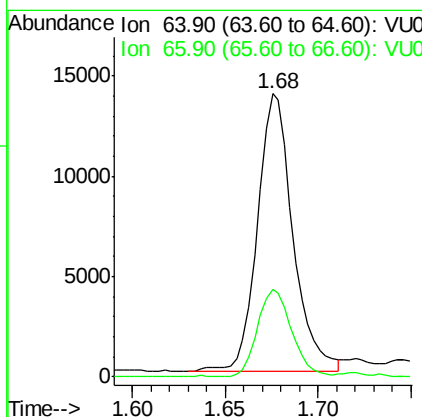
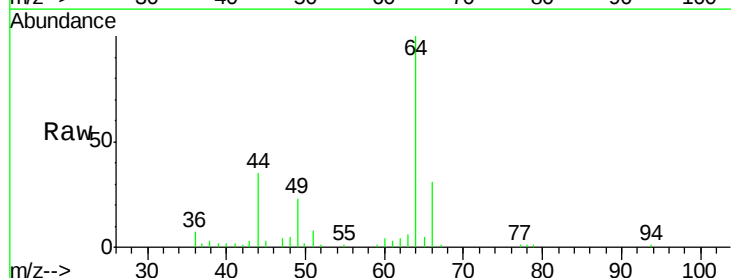
Acq: 28 Aug 2019 12:02

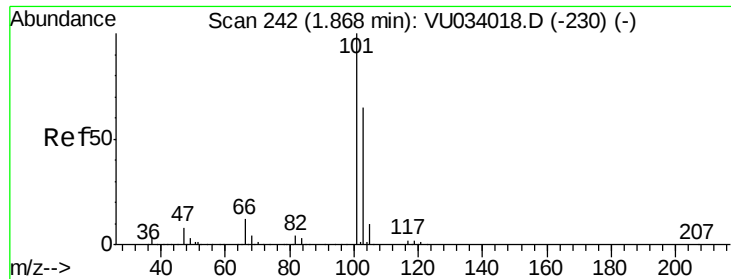
Tgt Ion: 64 Resp: 18545

Ion Ratio Lower Upper

64 100

66 31.4 25.5 38.3





#7

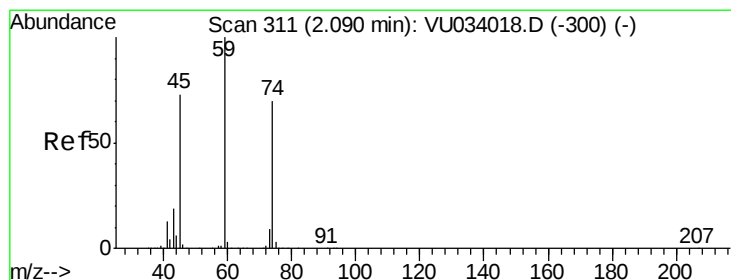
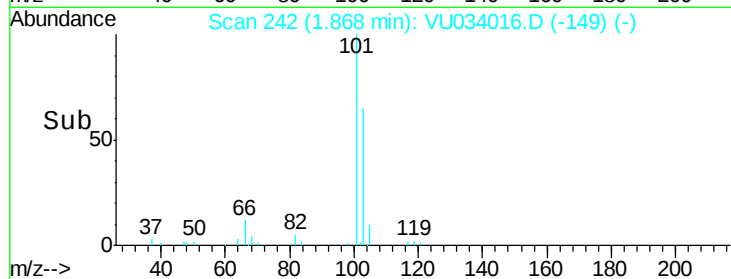
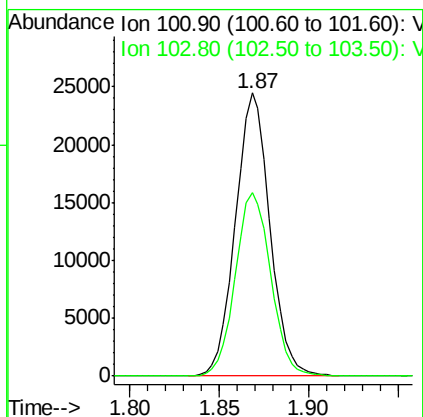
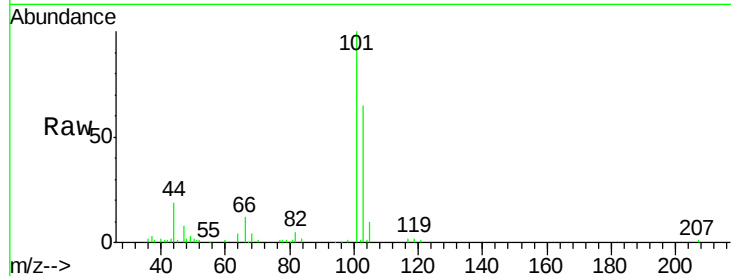
Trichlorofluoromethane
Concen: 5.498 ug/l
RT: 1.87 min Scan# 242
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.1	78.1

Manual Integrations
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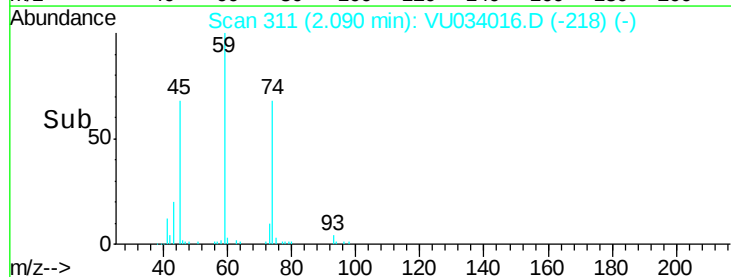
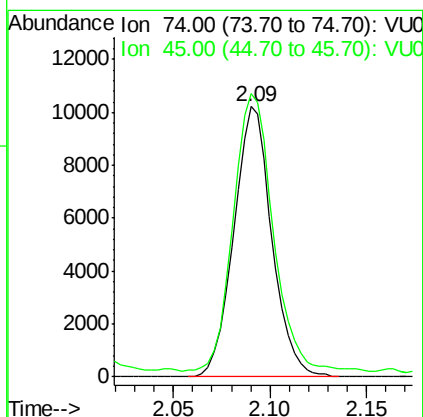
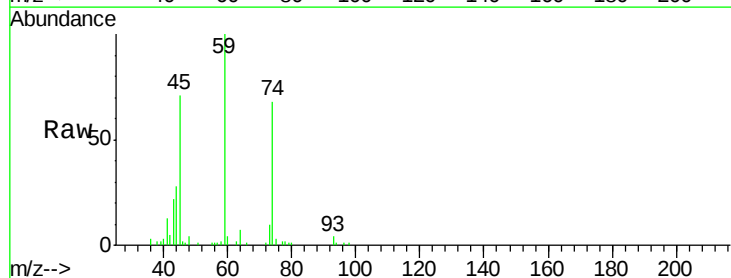
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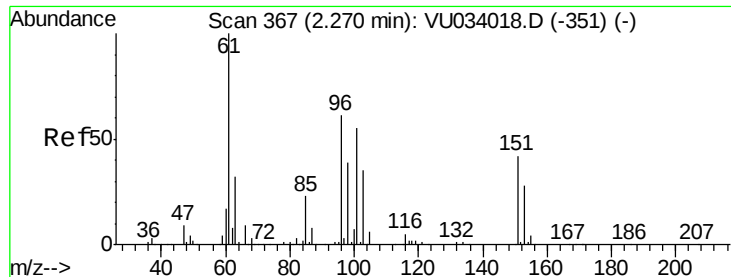


#8

Diethyl Ether
Concen: 5.961 ug/l
RT: 2.09 min Scan# 311
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.5	51.8	155.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.763 ug/l

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

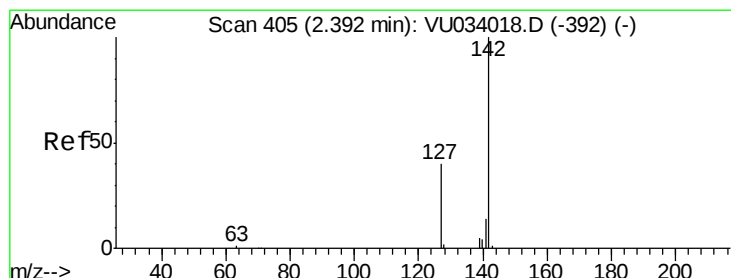
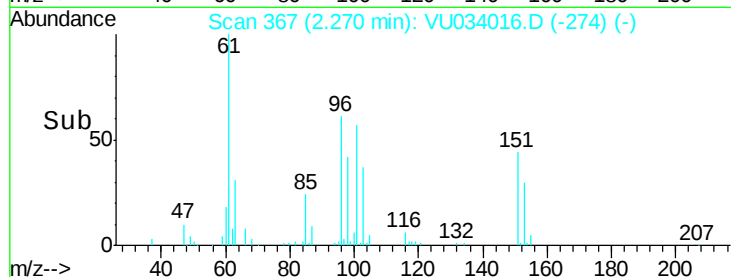
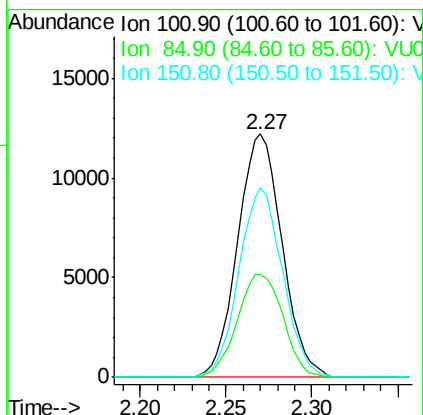
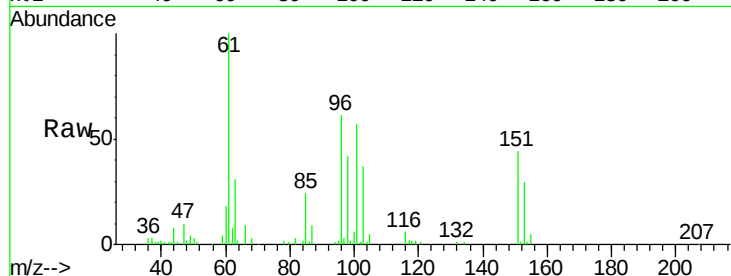
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	21895
Ion Ratio	Lower	Upper	
101	100		
85	43.5	34.2	51.2
151	76.8	61.4	92.2

Manual Integrations
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#10

Methyl Iodide

Concen: 4.585 ug/l

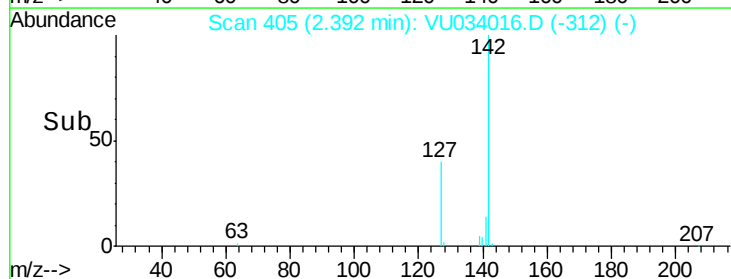
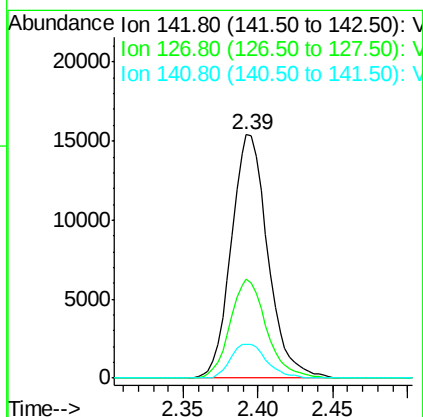
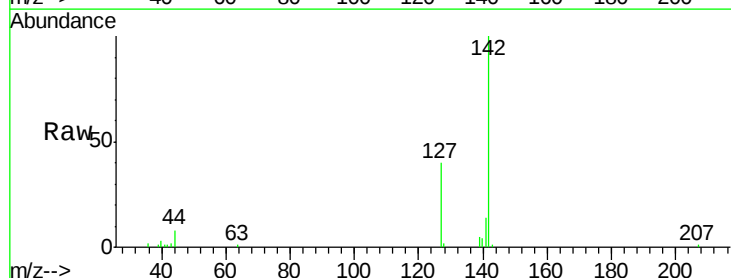
RT: 2.39 min Scan# 405

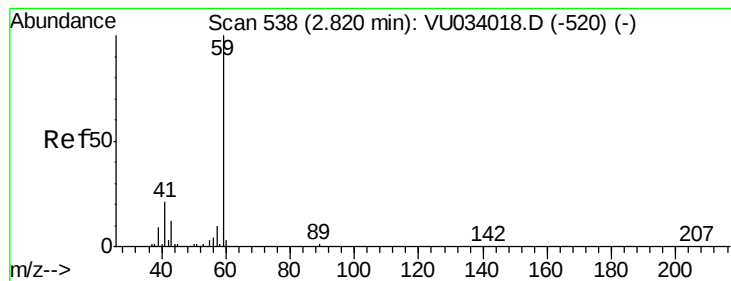
Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion:	142	Resp:	26187
Ion Ratio	Lower	Upper	
142	100		
127	40.5	32.6	48.8
141	13.7	11.3	16.9





#11

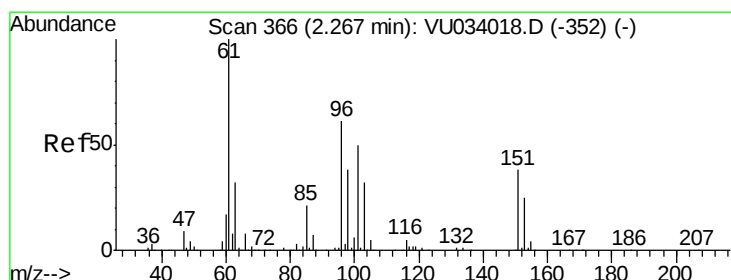
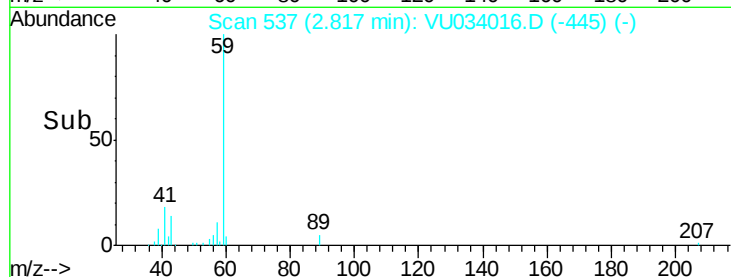
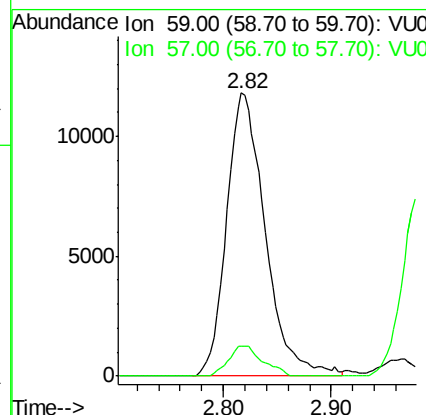
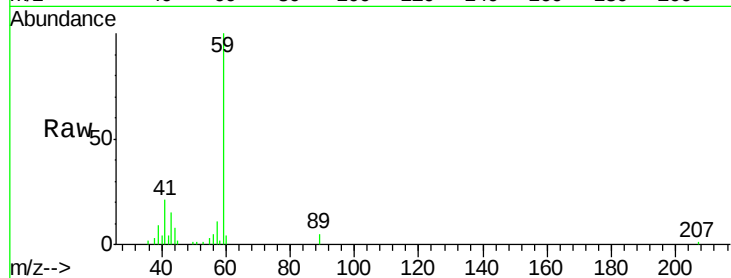
Tert butyl alcohol
 Concen: 22.886 ug/l
 RT: 2.82 min Scan# 537
 Delta R.T. -0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
59	100	29425		
57	9.4		8.0	12.0

Manual Integrations
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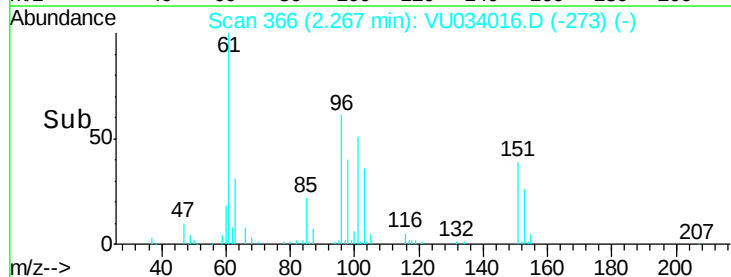
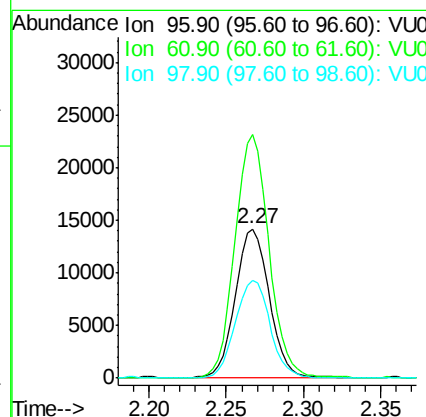
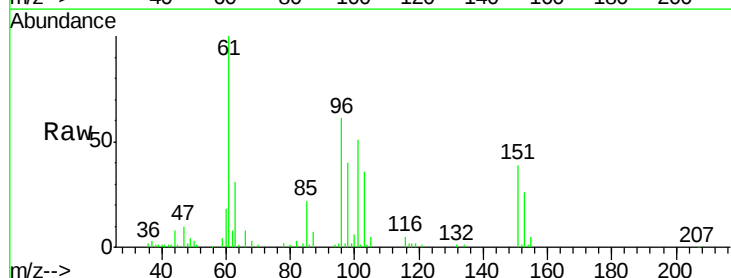
MMDadoda
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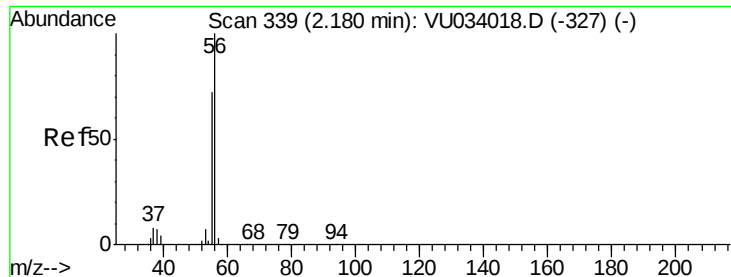


#12

1,1-Dichloroethene
 Concen: 5.465 ug/l
 RT: 2.27 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	21698		
61	163.0		131.3	196.9
98	65.3		50.3	75.5





#13

Acrolein

Concen: 36.490 ug/l

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 15847

Ion Ratio Lower Upper

56 100

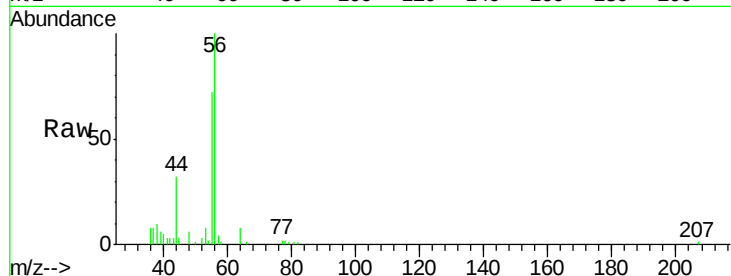
55 71.4 57.1 85.7

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VU034016.D (-246) (-)

Ion 55.00 (54.70 to 55.70): VU034016.D (-246) (-)

2.18

12000

10000

8000

6000

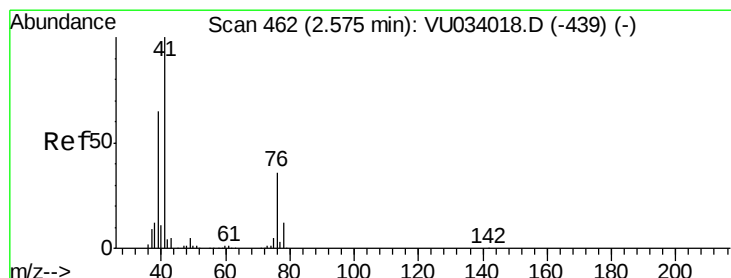
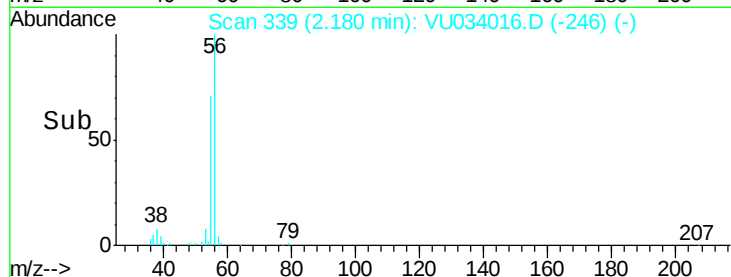
4000

2000

0

Time-->

2.15 2.20



#14

Allyl chloride

Concen: 5.664 ug/l

RT: 2.58 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

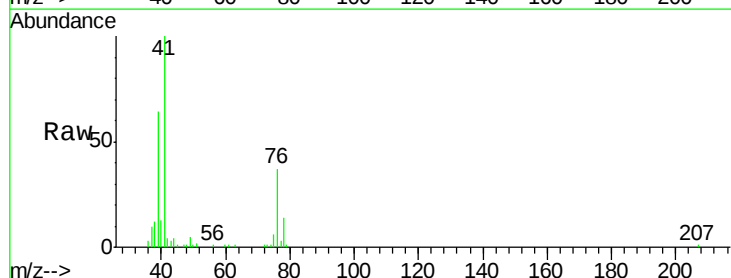
Tgt Ion: 41 Resp: 40320

Ion Ratio Lower Upper

41 100

39 60.3 46.8 70.2

76 32.2 26.6 40.0



Abundance Ion 41.00 (40.70 to 41.70): VU034016.D (-369) (-)

Ion 39.00 (38.70 to 39.70): VU034016.D (-369) (-)

Ion 75.90 (75.60 to 76.60): VU034016.D (-369) (-)

2.58

60000

50000

40000

30000

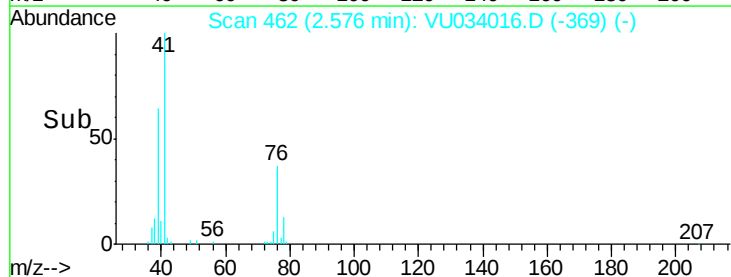
20000

10000

0

Time-->

2.45 2.50 2.55 2.60 2.65





#15

Acrylonitrile

Concen: 26.689 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

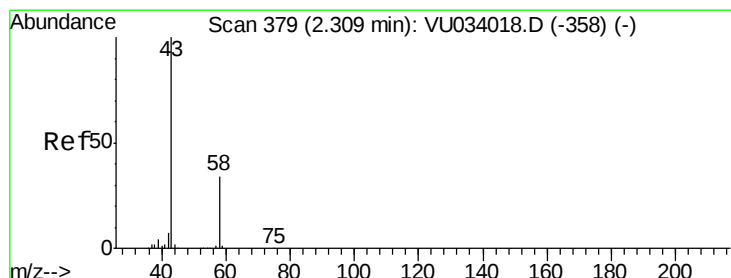
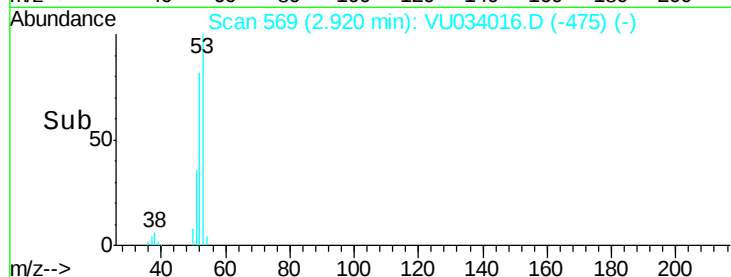
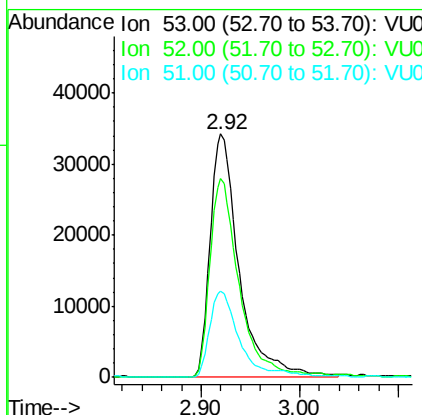
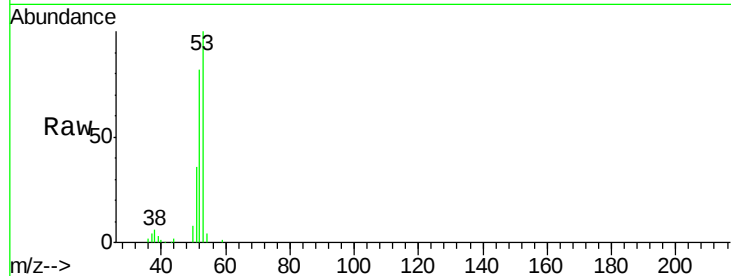
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	70654
Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.7	98.5
51	34.2	27.9	41.9

Manual Integrations
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#16

Acetone

Concen: 30.888 ug/l

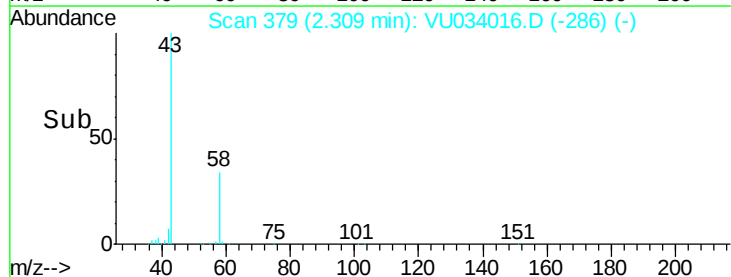
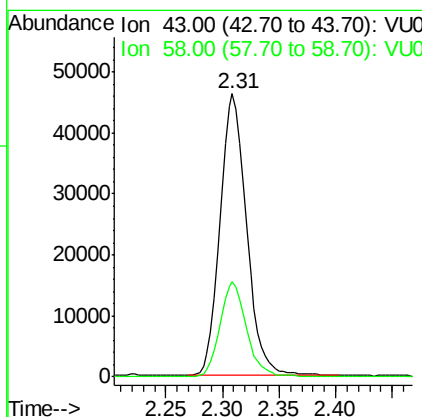
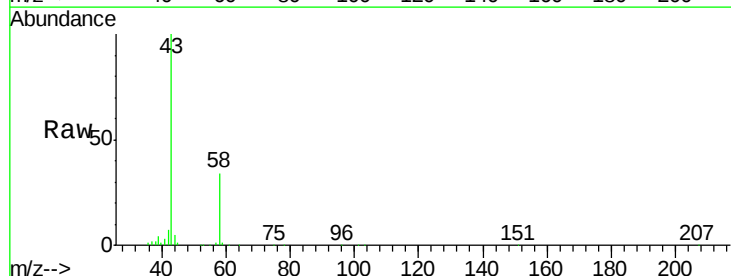
RT: 2.31 min Scan# 379

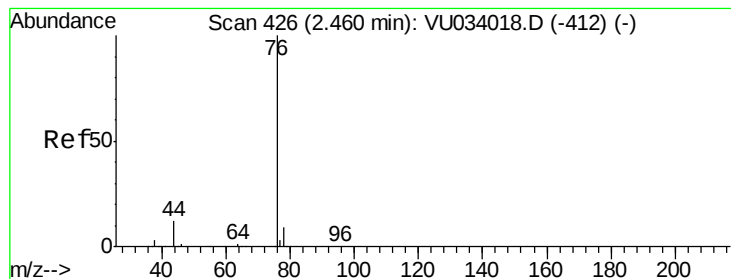
Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion:	43	Resp:	75276
Ion	Ratio	Lower	Upper
43	100		
58	33.7	26.8	40.2





#17

Carbon Disulfide

Concen: 5.282 ug/l

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 68661

Ion Ratio Lower Upper

76 100

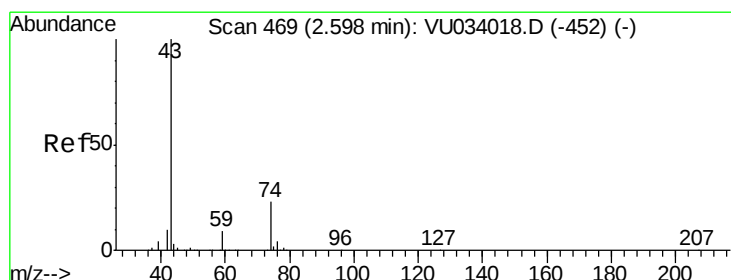
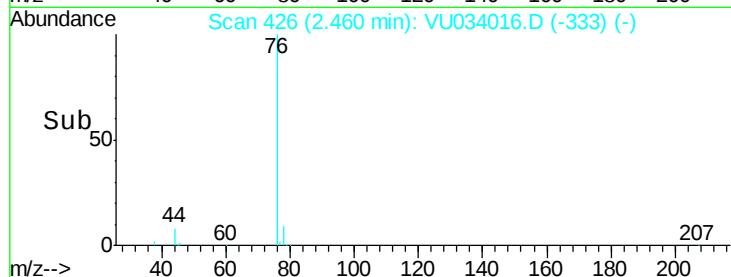
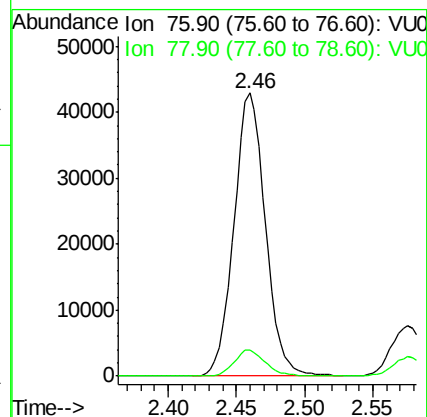
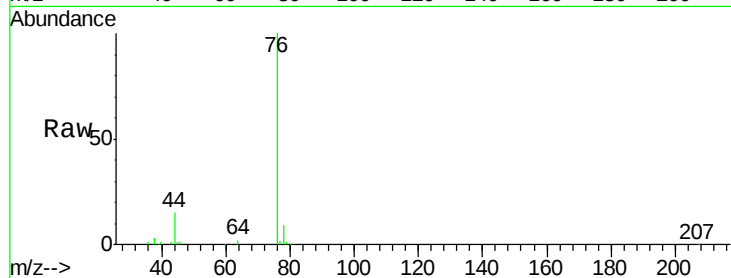
78 9.3 7.1 10.7

Manual Integrations

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#18

Methyl Acetate

Concen: 5.880 ug/l

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU034016.D

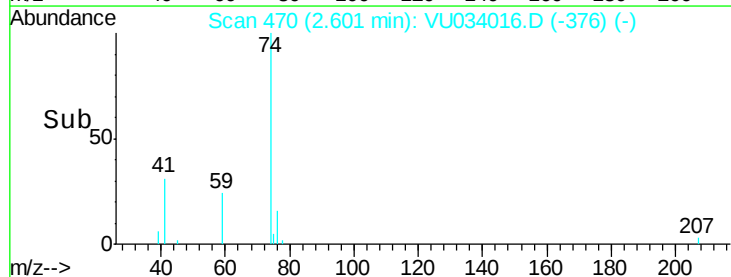
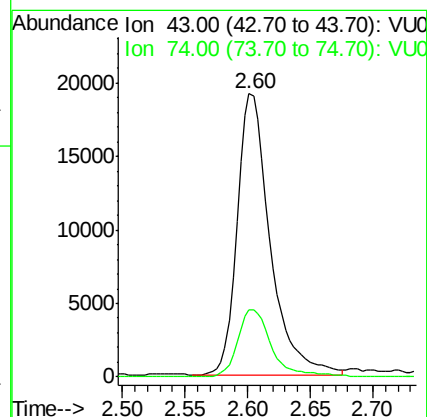
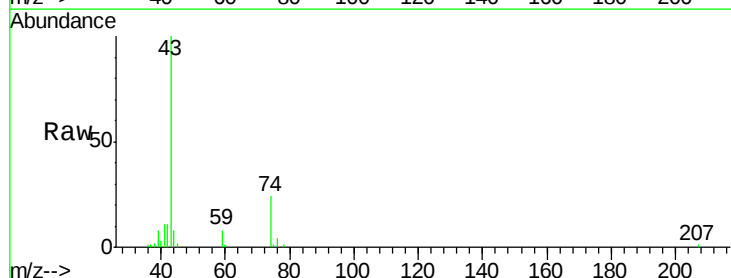
Acq: 28 Aug 2019 12:02

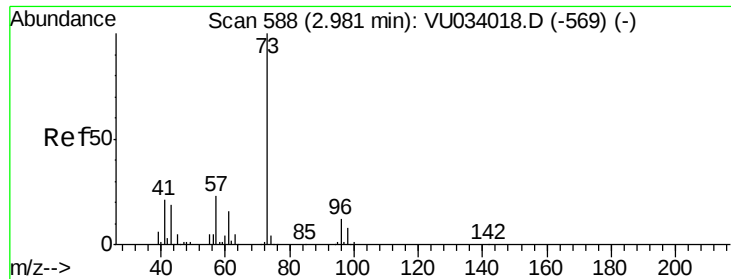
Tgt Ion: 43 Resp: 35187

Ion Ratio Lower Upper

43 100

74 24.5 19.2 28.8





#19

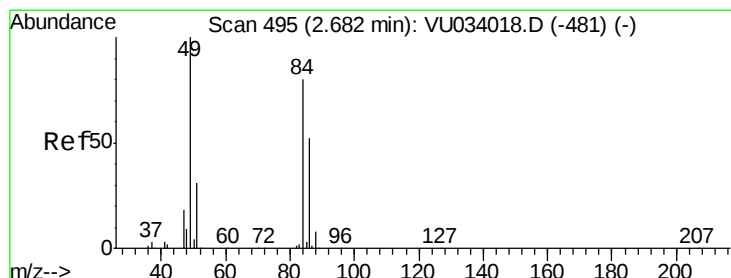
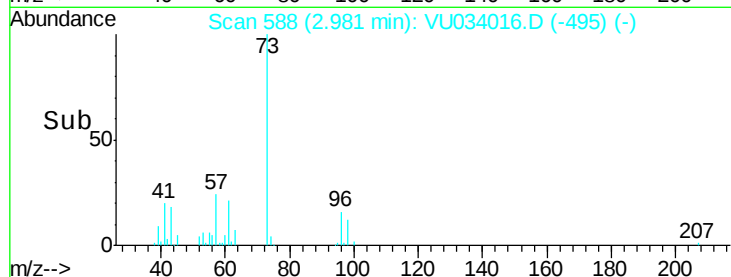
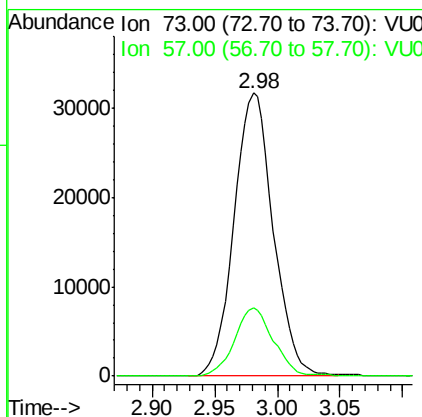
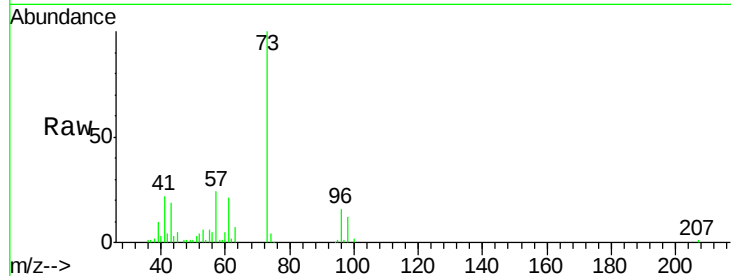
Methyl tert-butyl Ether
 Concen: 5.171 ug/l
 RT: 2.98 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	73	Resp	68823
Ion Ratio	Lower	Upper	
73	100		
57	23.9	18.3	27.5

Manual Integrations
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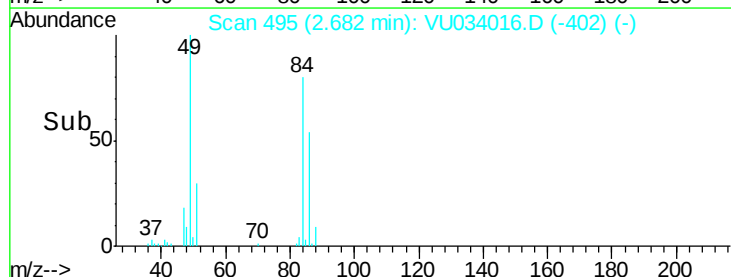
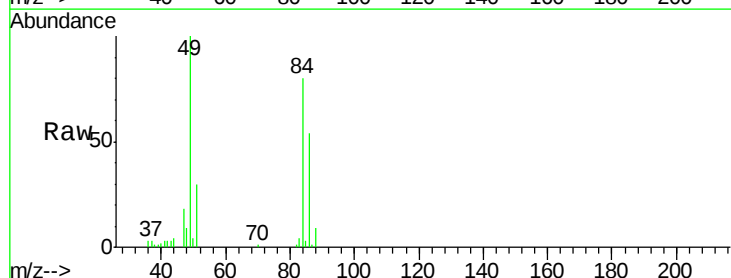
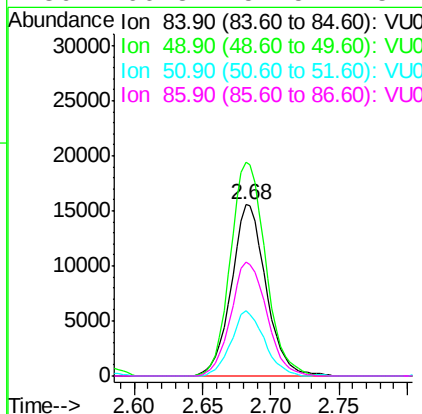
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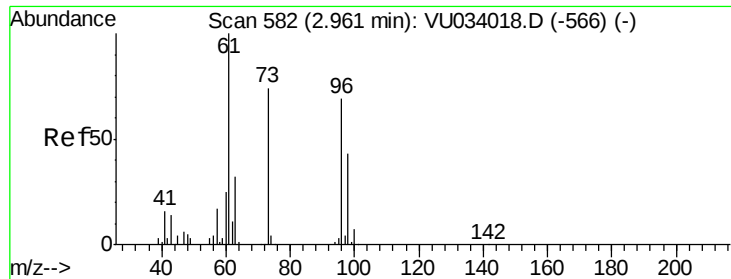


#20

Methylene Chloride
 Concen: 5.450 ug/l
 RT: 2.68 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	84	Resp	27555
Ion Ratio	Lower	Upper	
84	100		
49	124.9	100.2	150.4
51	38.0	30.8	46.2
86	66.8	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 5.400 ug/l

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

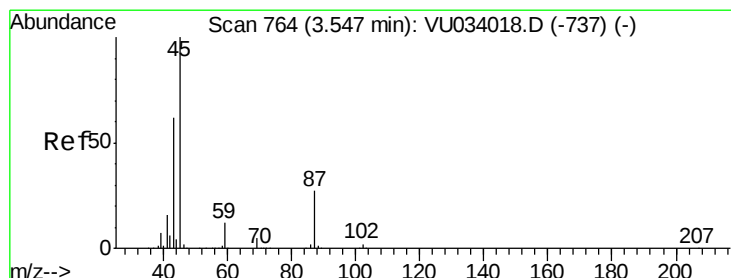
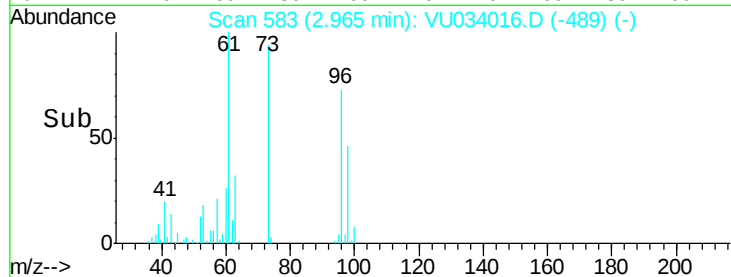
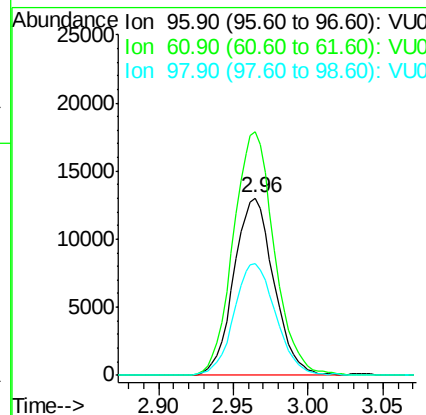
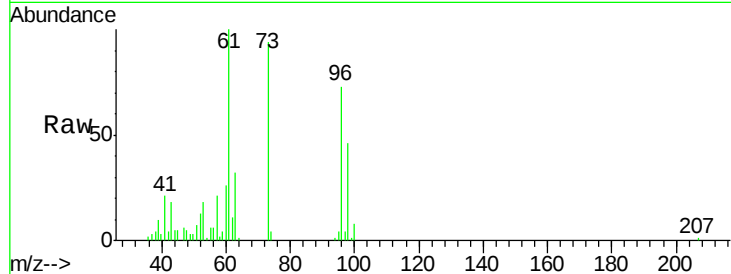
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	24240
Ion	Ratio	Lower	Upper
96	100		
61	137.1	115.5	173.3
98	62.8	50.1	75.1

Manual Integrations
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#22

Diisopropyl ether

Concen: 5.704 ug/l

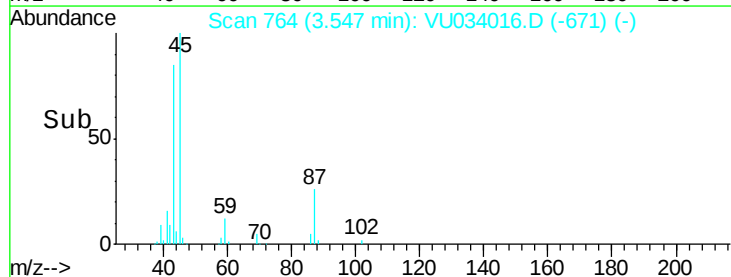
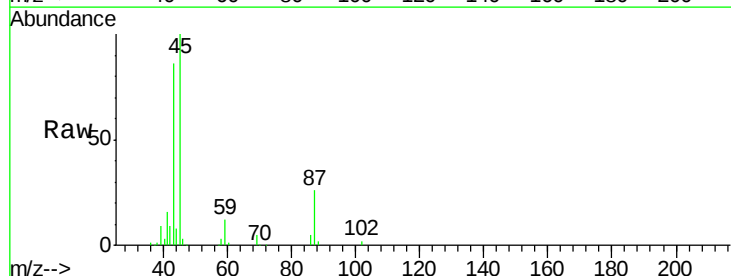
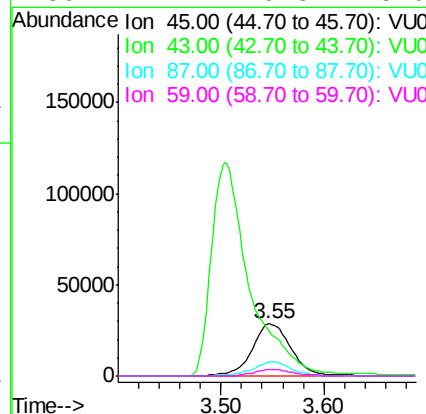
RT: 3.55 min Scan# 764

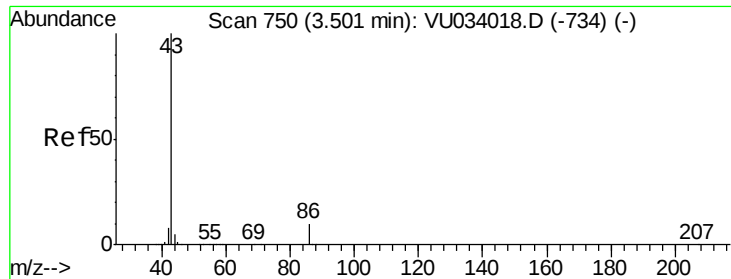
Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion:	45	Resp:	74721
Ion	Ratio	Lower	Upper
45	100		
43	83.6	49.7	74.5#
87	26.3	21.8	32.8
59	12.1	9.3	13.9





#23

Vinyl Acetate

Concen: 27.261 ug/l

RT: 3.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 304321

Ion Ratio Lower Upper

43 100

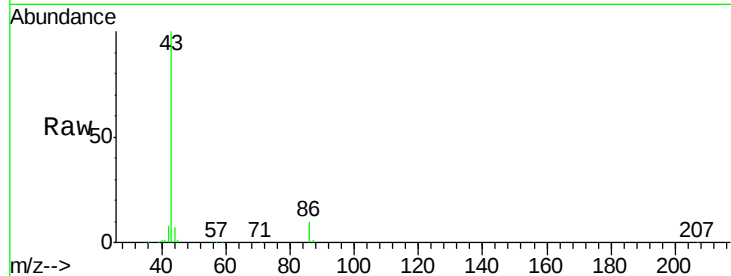
86 10.4 8.3 12.5

Manual Integrations

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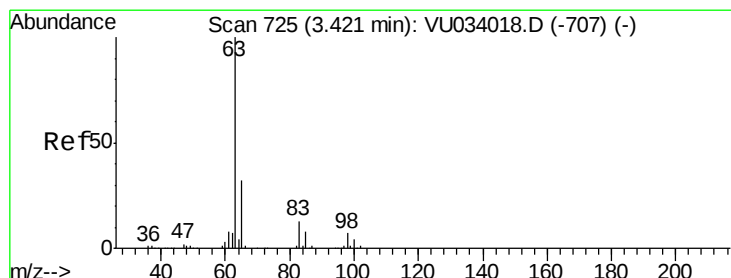
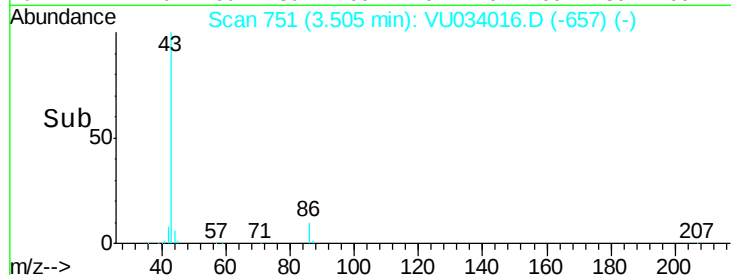
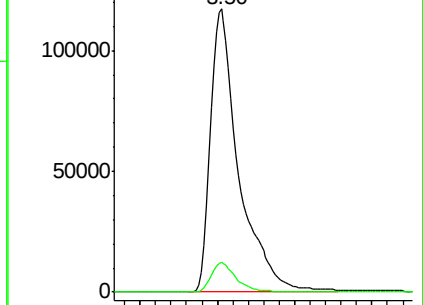
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Abundance Ion 43.00 (42.70 to 43.70): VU034016.D (-657) (-)

Ion 86.00 (85.70 to 86.70): VU034016.D (-657) (-)



#24

1,1-Dichloroethane

Concen: 5.639 ug/l

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

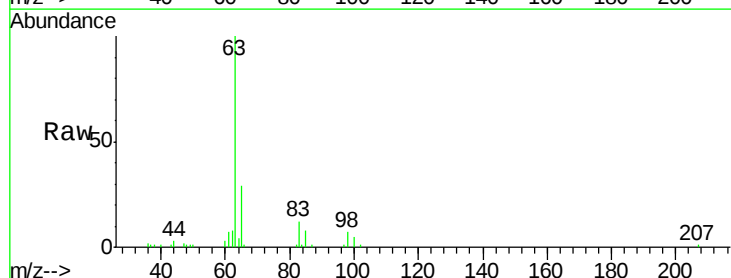
Tgt Ion: 63 Resp: 45616

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

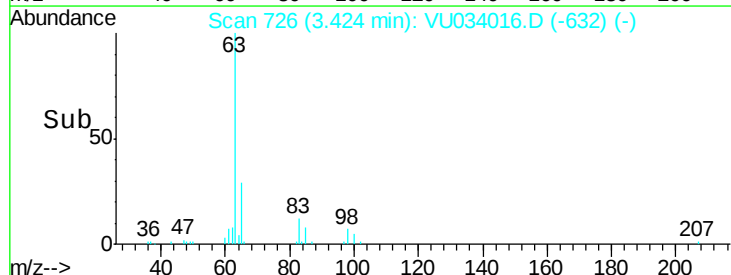
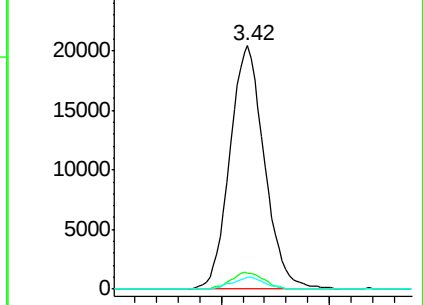
100 4.8 2.0 6.0

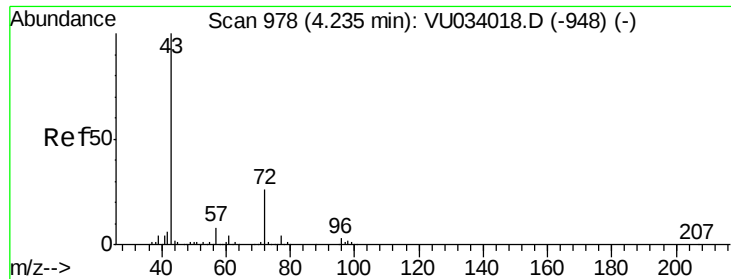


Abundance Ion 62.90 (62.60 to 63.60): VU034016.D (-632) (-)

Ion 97.90 (97.60 to 98.60): VU034016.D (-632) (-)

Ion 99.90 (99.60 to 100.60): VU034016.D (-632) (-)





#25

2-Butanone

Concen: 27.409 ug/l

RT: 4.24 min Scan# 981

Delta R.T. 0.01 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 95873

Ion Ratio Lower Upper

43 100

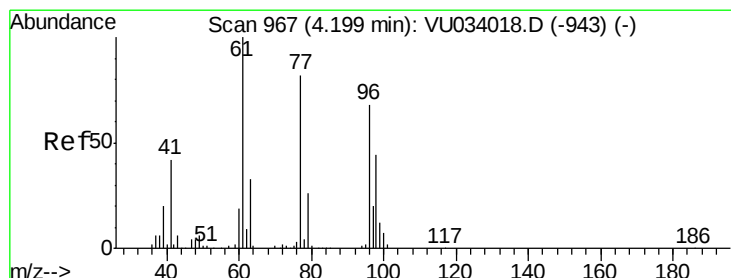
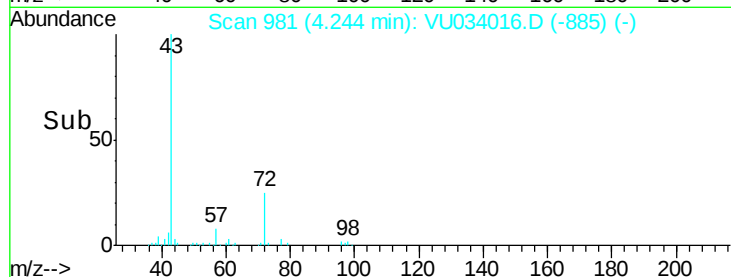
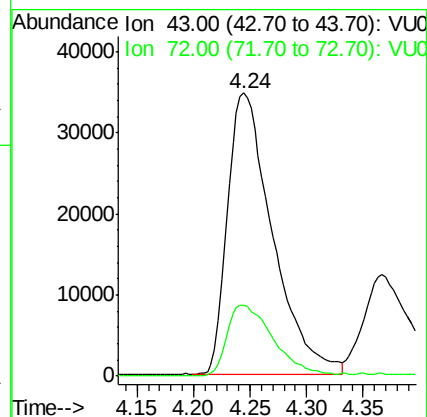
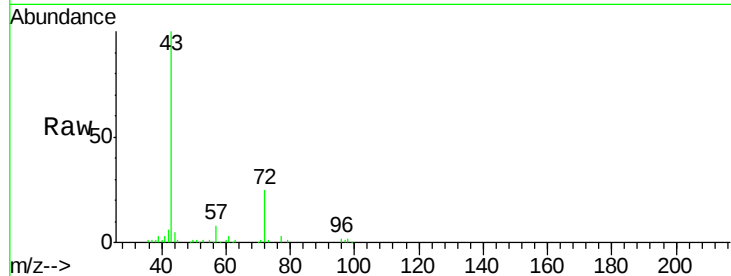
72 25.4 21.2 31.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 5.390 ug/l

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU034016.D

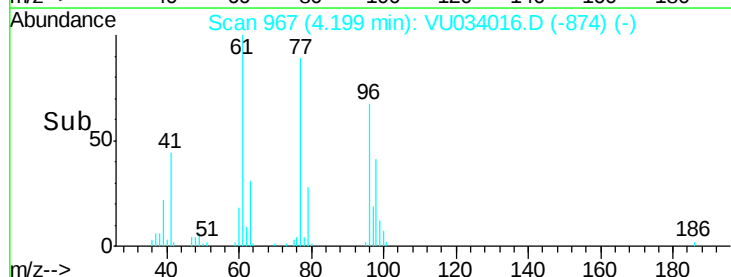
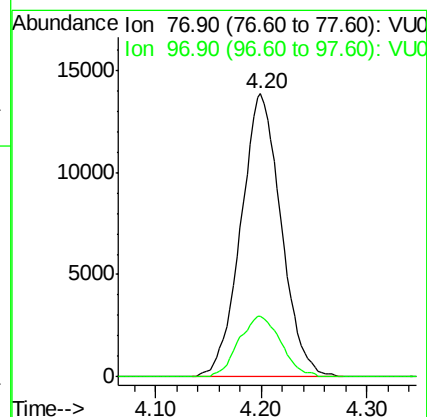
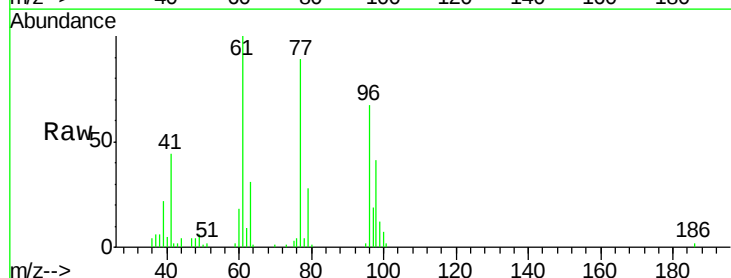
Acq: 28 Aug 2019 12:02

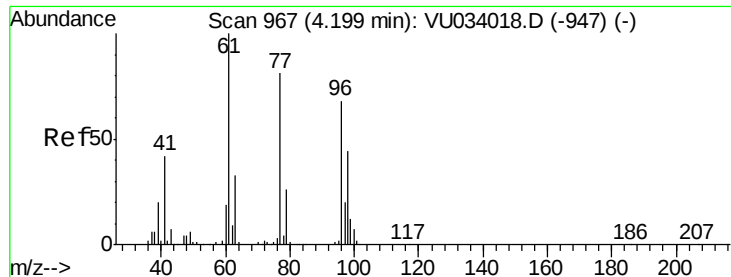
Tgt Ion: 77 Resp: 36668

Ion Ratio Lower Upper

77 100

97 22.3 11.6 34.7





#27

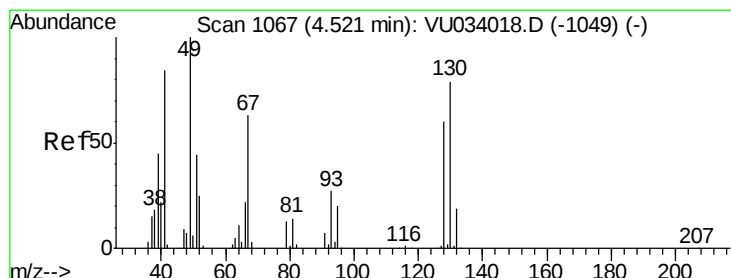
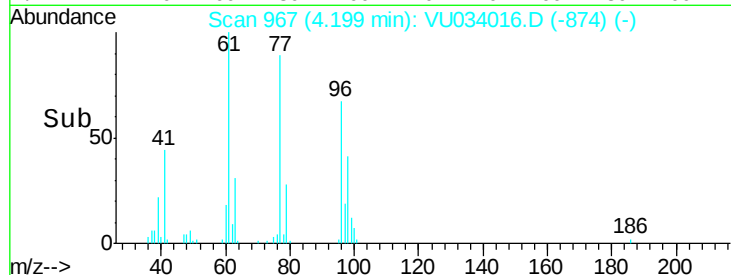
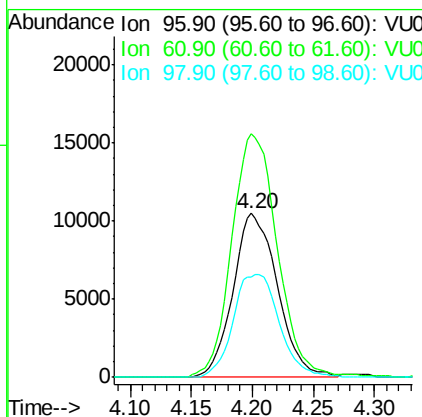
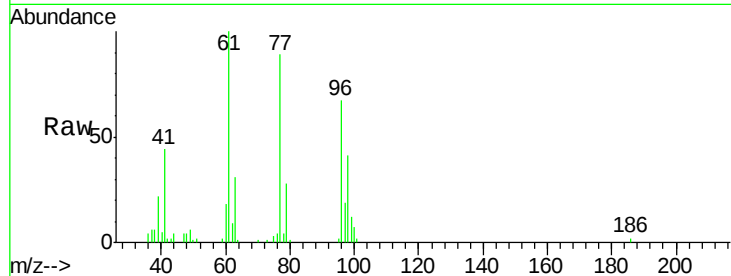
cis-1,2-Dichloroethene
 Concen: 5.265 ug/l
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	303.0
98	65.1	0.0	129.2

Manual Integrations
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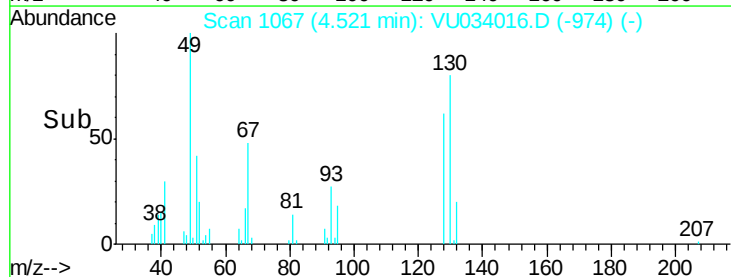
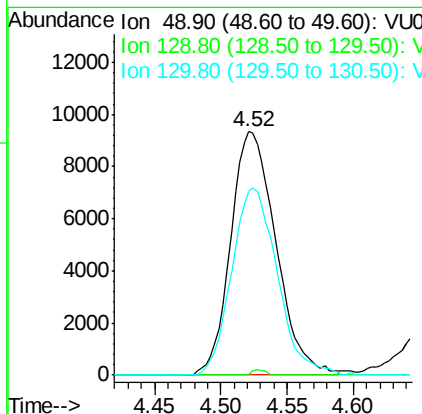
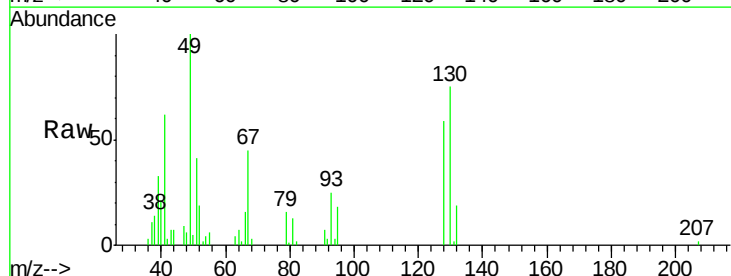
MMDadoda
 8/29/2019 8:27:30 AM

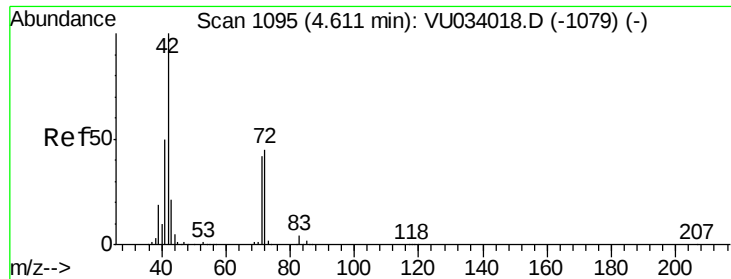


#28

Bromochloromethane
 Concen: 5.896 ug/l
 RT: 4.52 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.6
130	77.3	62.8	94.2





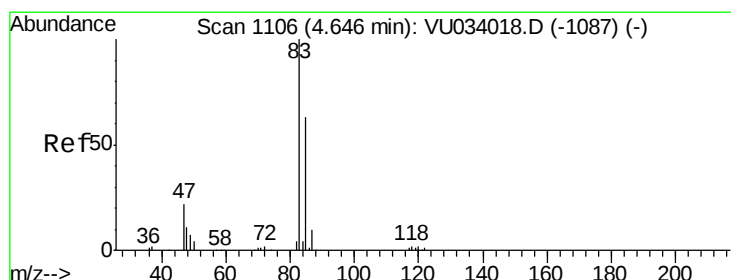
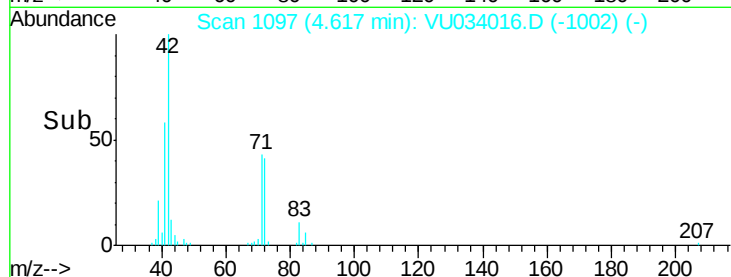
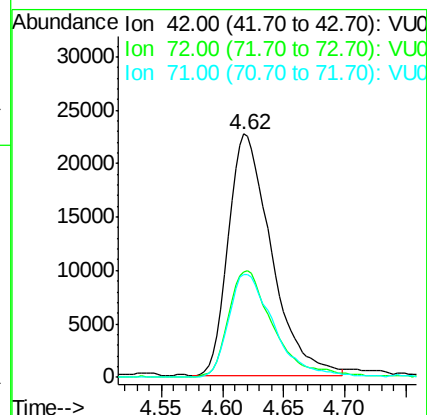
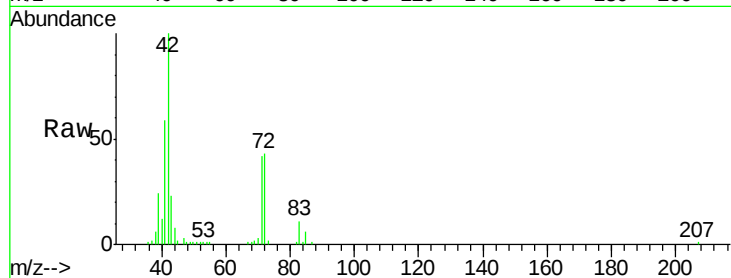
#29
Tetrahydrofuran
Concen: 25.656 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.3	35.8	53.6
71	44.7	34.0	51.0

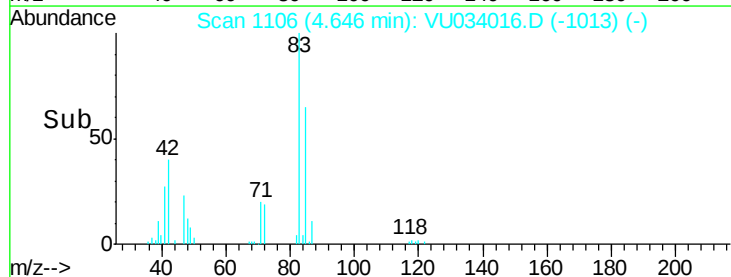
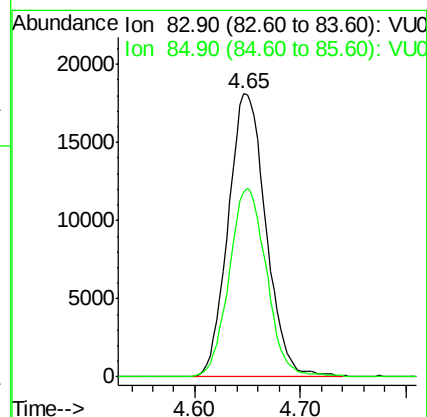
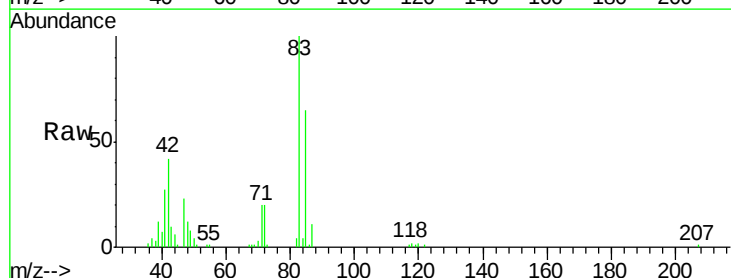
Manual Integrations
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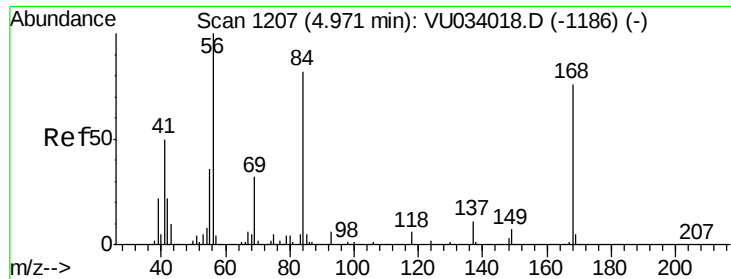
MMDadoda
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#30
Chloroform
Concen: 5.467 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.7	76.1





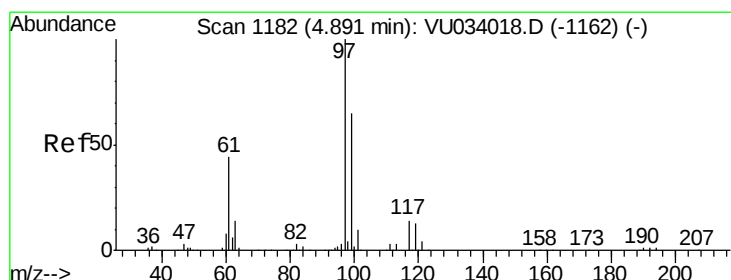
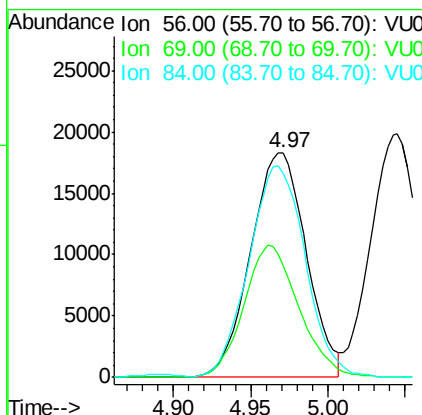
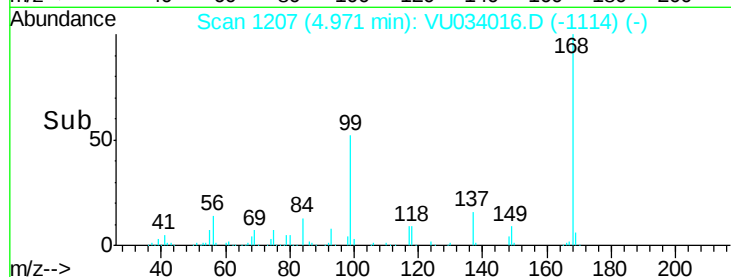
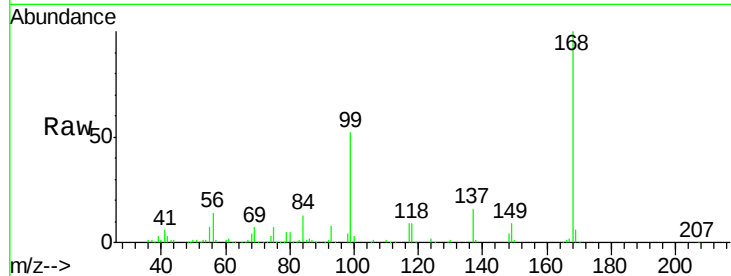
#31
Cyclohexane
Concen: 6.128 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	49.6	25.4	38.0#
84	90.6	65.8	98.8

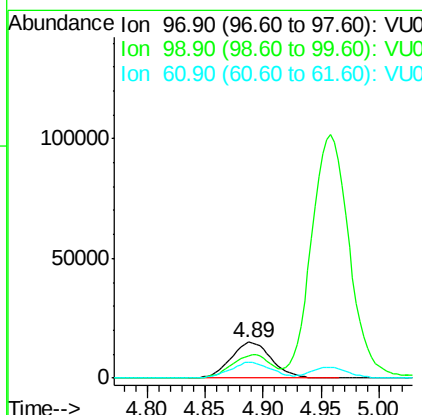
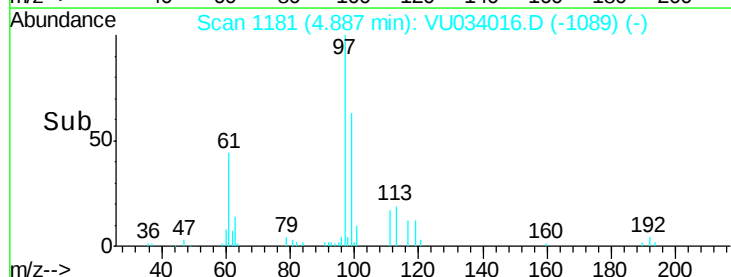
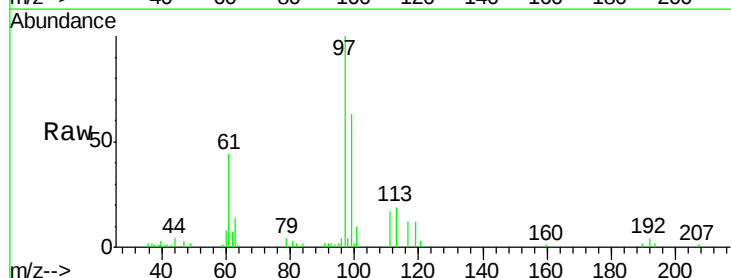
Manual Integrations
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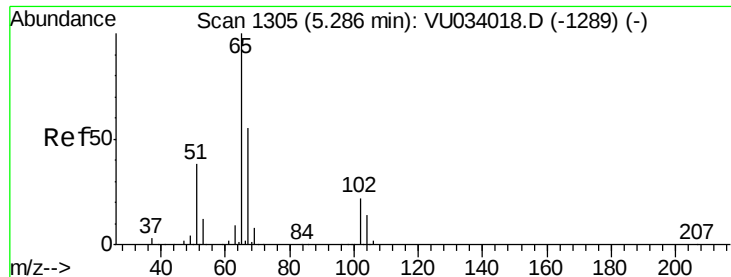
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 5.302 ug/l
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
97	100		
61	44.3	35.3	52.9
99	63.2	51.8	77.6





#33

1,2-Dichloroethane-d4

Concen: 5.934 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 29869

Ion Ratio Lower Upper

65 100

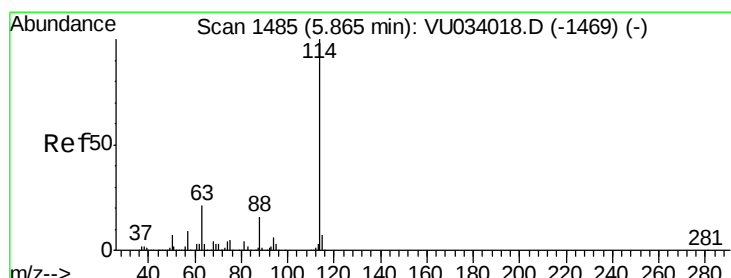
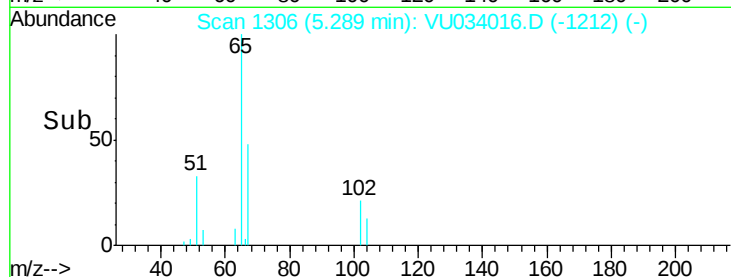
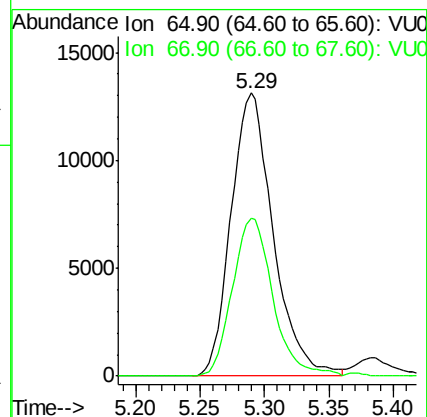
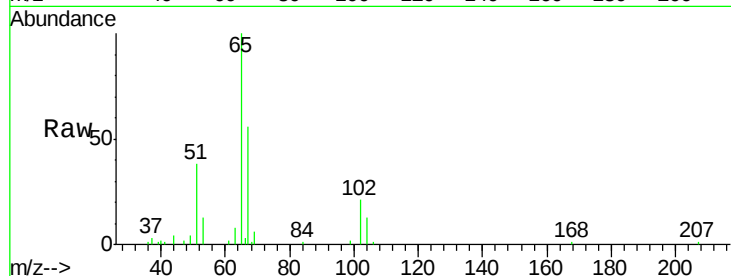
67 53.5 0.0 110.6

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

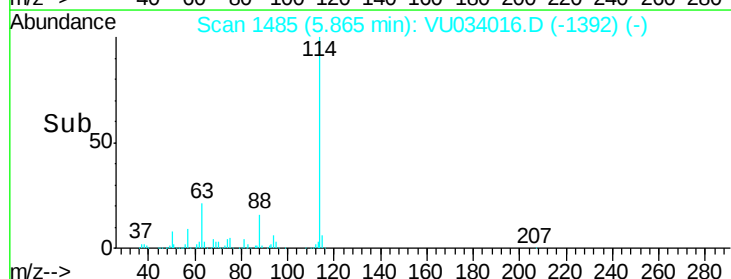
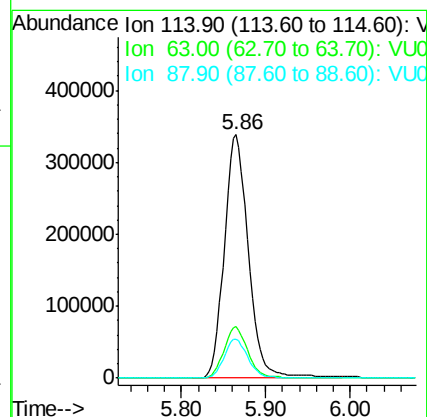
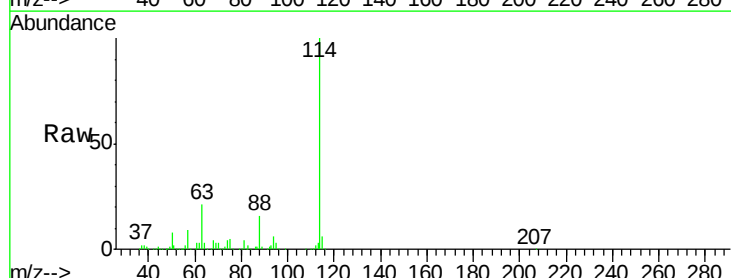
Tgt Ion: 114 Resp: 671913

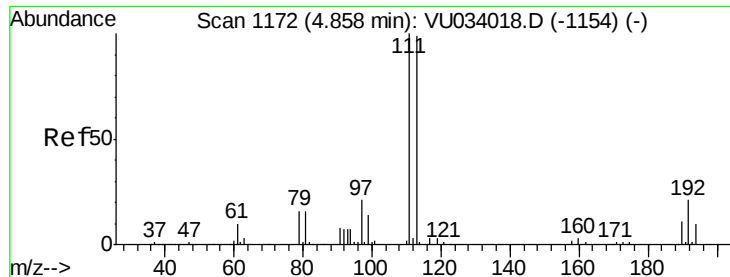
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

88 16.0 0.0 32.0





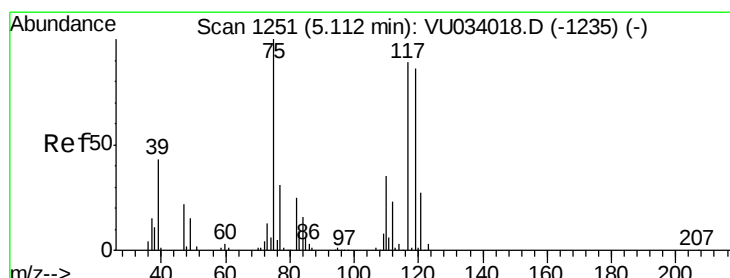
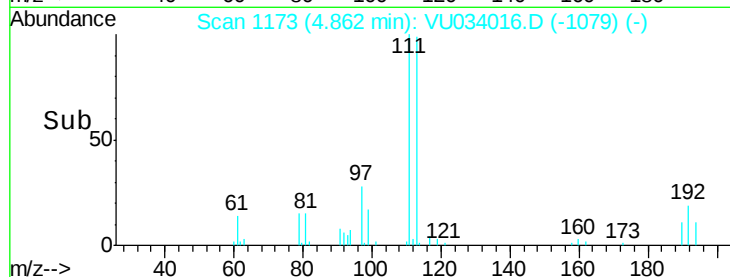
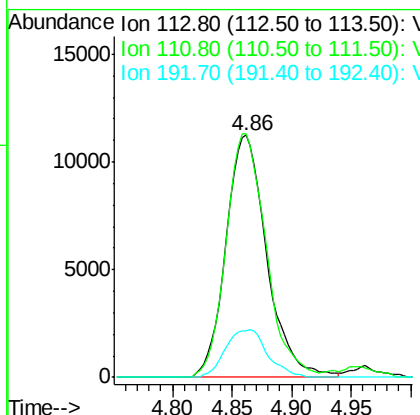
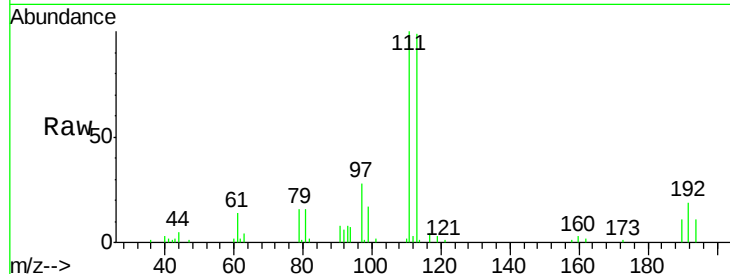
#35
 Dibromofluoromethane
 Concen: 5.839 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	26754		
111	98.3		81.7	122.5
192	20.2		17.1	25.7

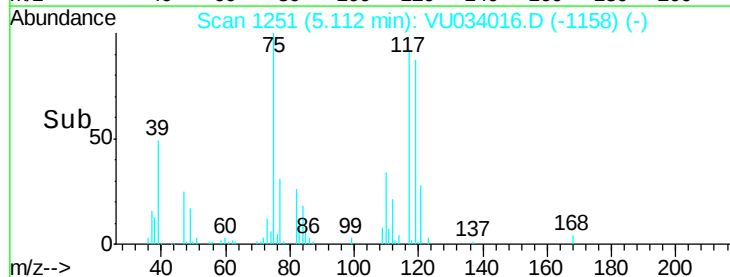
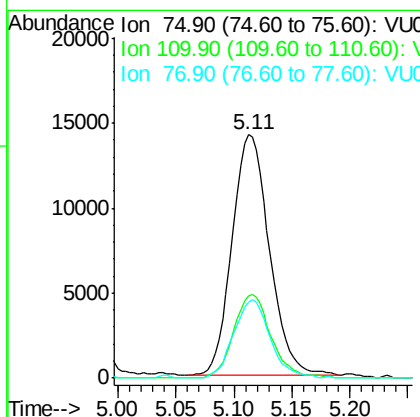
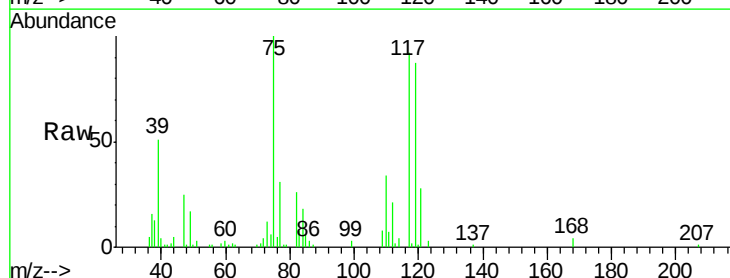
Manual Integrations
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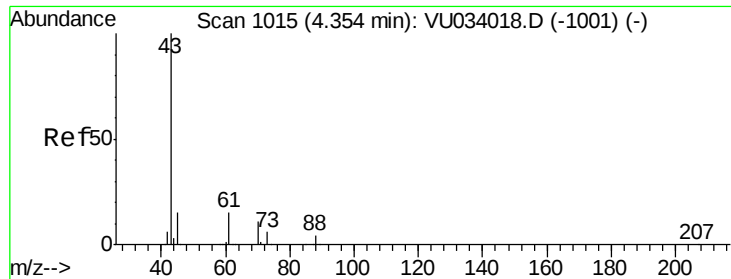
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#36
 1,1-Dichloropropene
 Concen: 5.045 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	31754		
110	34.3		17.8	53.5
77	31.8		25.0	37.4





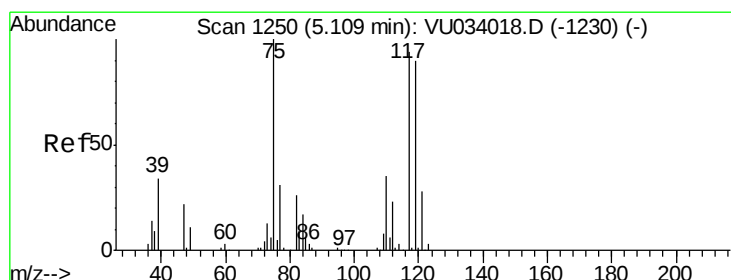
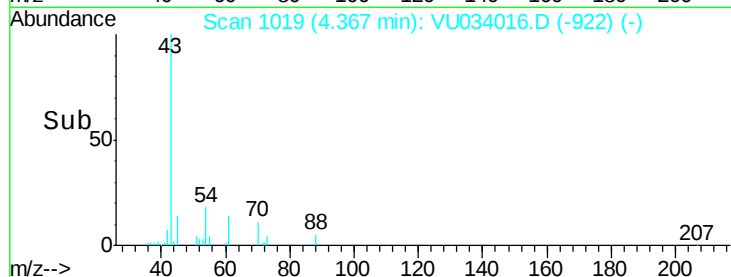
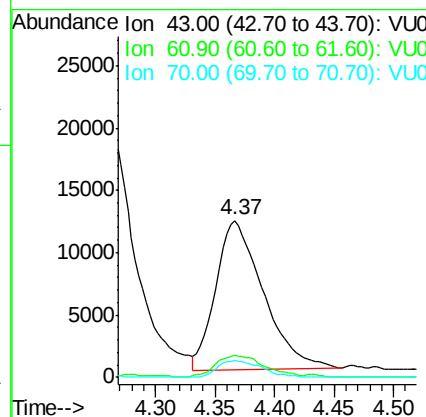
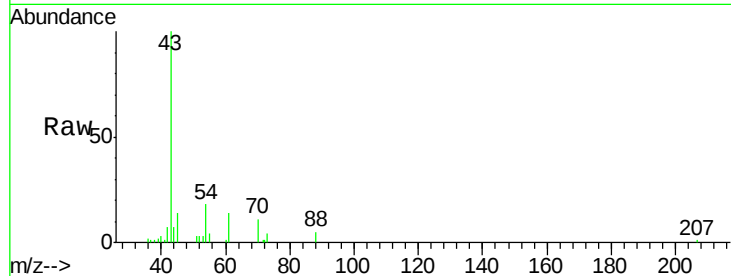
#37
Ethyl Acetate
Concen: 5.150 ug/l
RT: 4.37 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.5	17.3
70	10.3	8.6	12.8

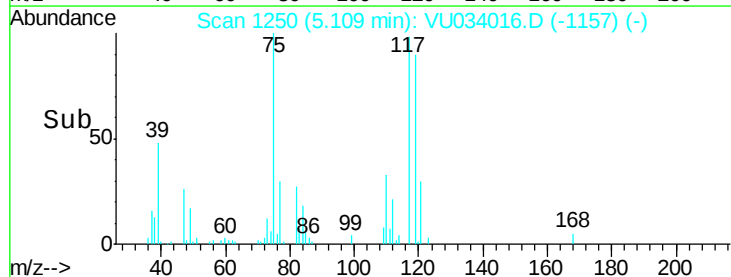
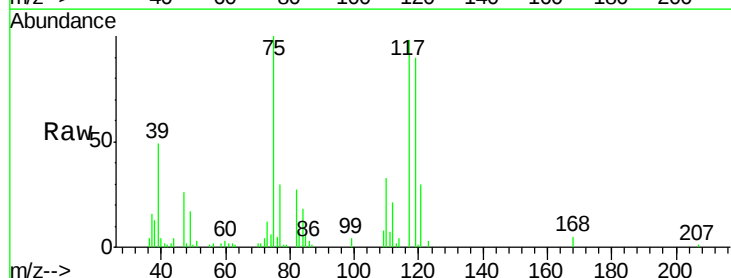
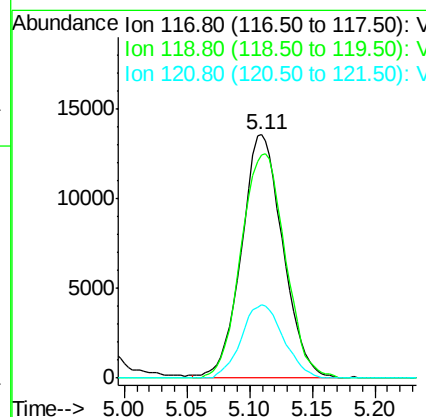
Manual Integrations
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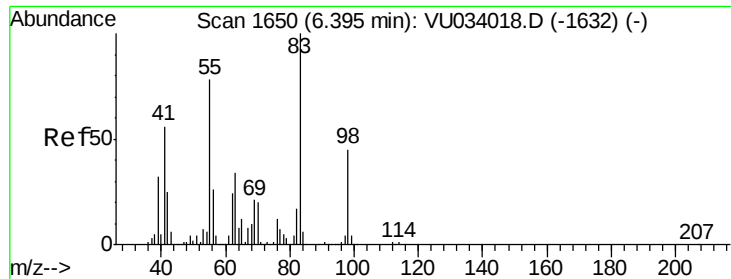
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#38
Carbon Tetrachloride
Concen: 4.895 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.7	77.0	115.4
121	30.1	23.9	35.9





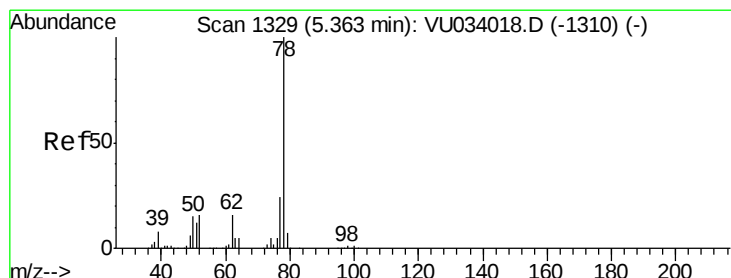
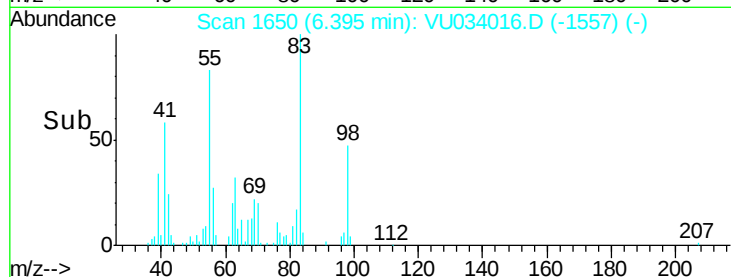
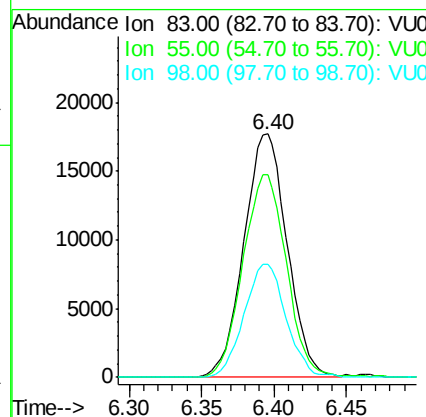
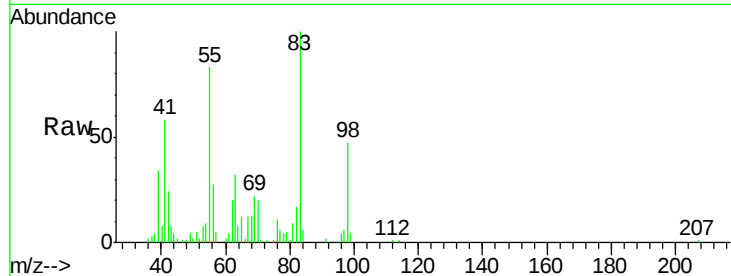
#39
Methylvlcvclohexane
Concen: 4.942 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.3	62.3	93.5
98	46.6	36.2	54.2

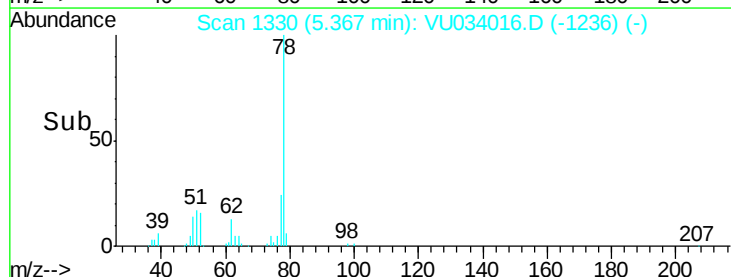
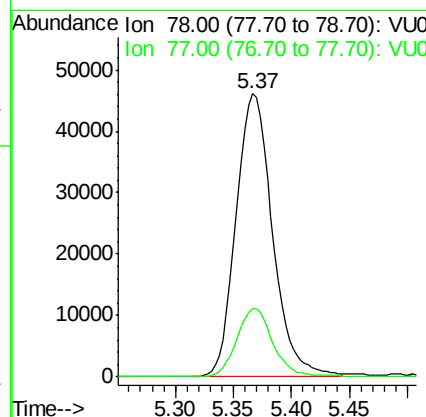
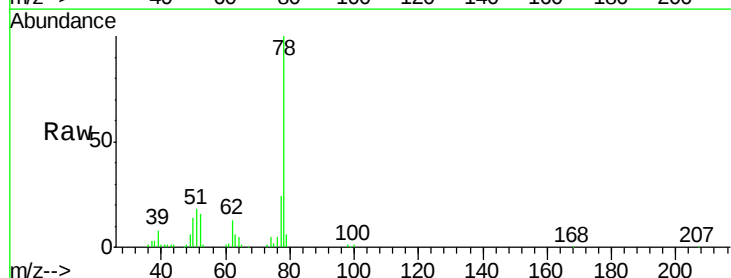
Manual Integrations
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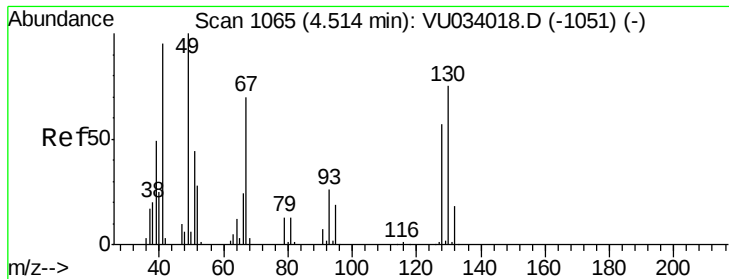
MMDadoda
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#40
Benzene
Concen: 5.382 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6





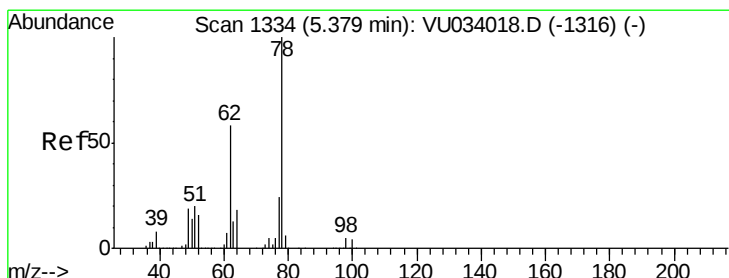
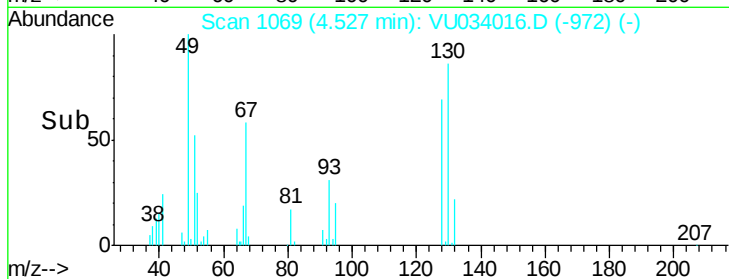
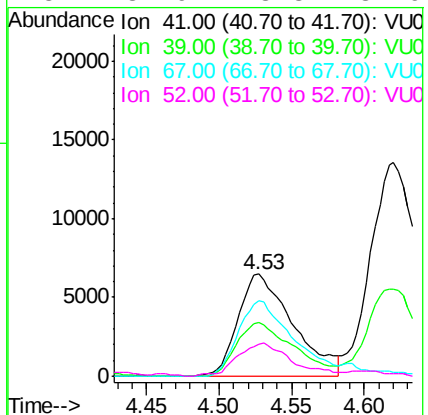
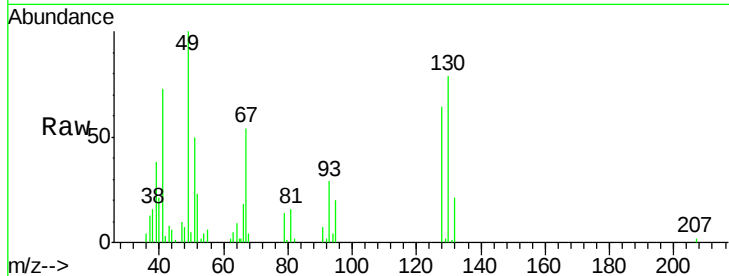
#41
Methacrylonitrile
Concen: 5.094 ug/l
RT: 4.53 min Scan# 1069
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	17026
Ion	Ratio	Lower	Upper
41	100		
39	54.7	42.1	63.1
67	73.4	61.0	91.4
52	31.9	23.3	34.9

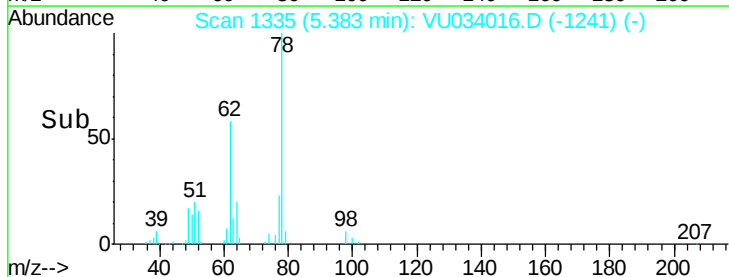
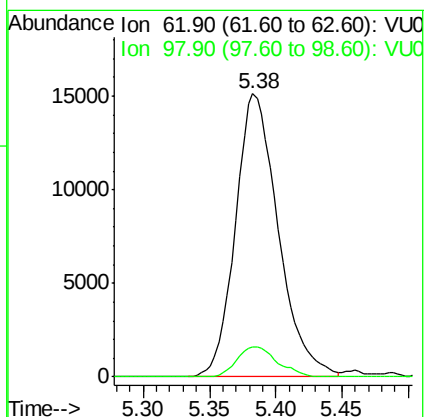
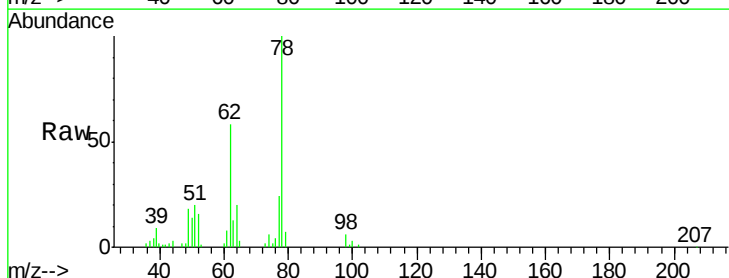
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 5.360 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion:	62	Resp:	34081
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	18.2





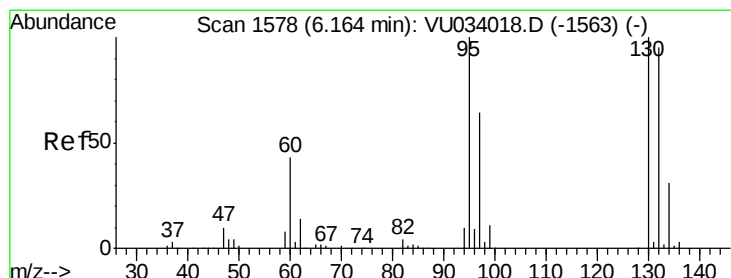
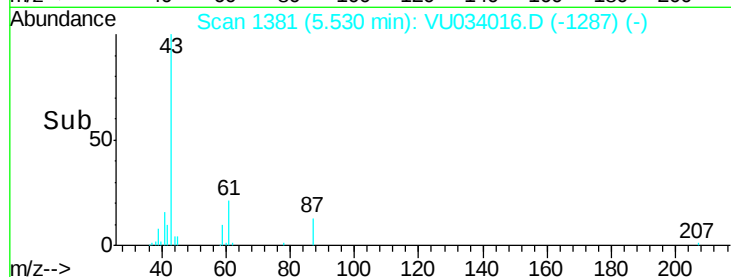
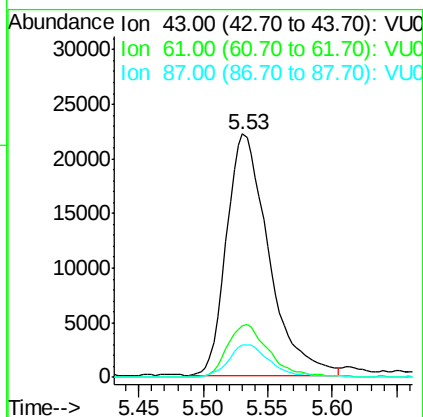
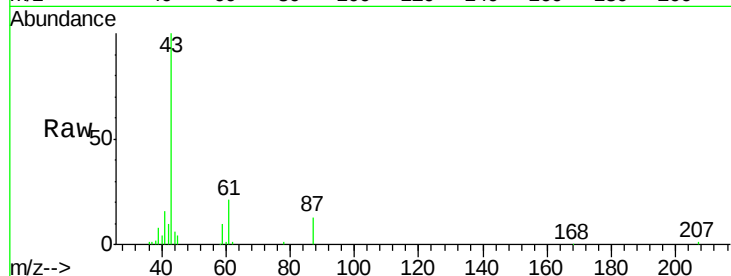
#43
Isopropyl Acetate
Concen: 5.084 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.8	17.2	25.8
87	13.4	10.8	16.2

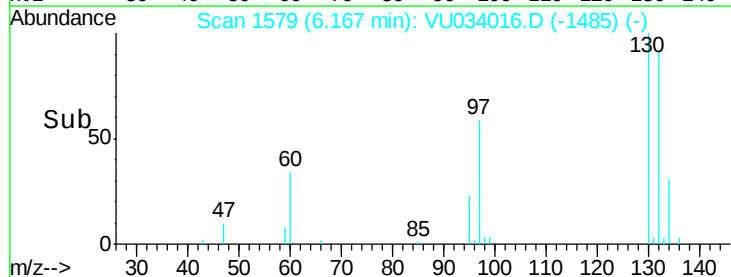
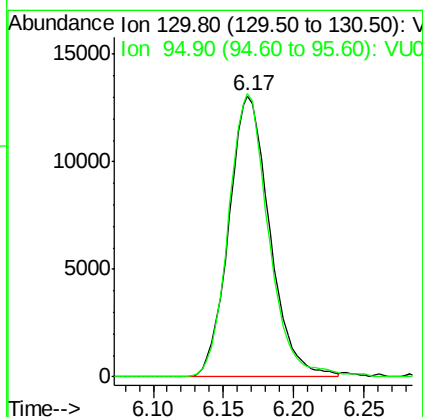
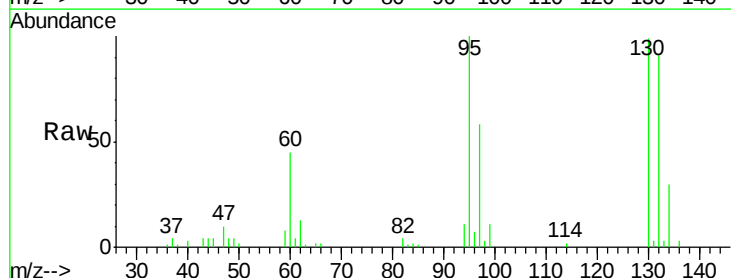
Manual Integrations
APPROVED

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8/29/2019 8:27:30 AM



#44
Trichloroethene
Concen: 5.039 ug/l
RT: 6.17 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	199.6





#45

1,2-Dichloropropane

Concen: 5.456 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 27563

Ion Ratio Lower Upper

63 100

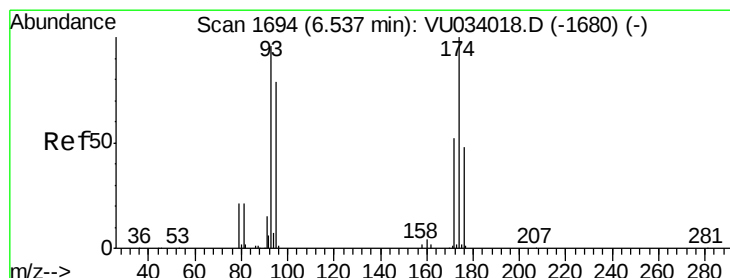
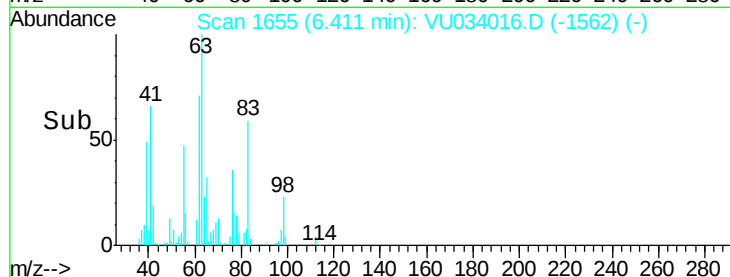
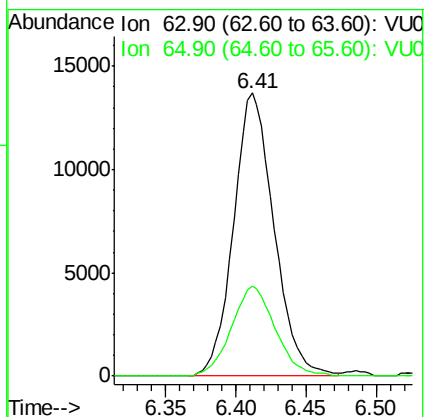
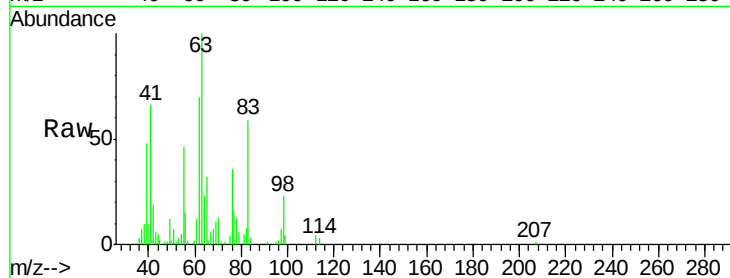
65 32.0 25.4 38.2

Manual Integrations

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#46

Dibromomethane

Concen: 5.193 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

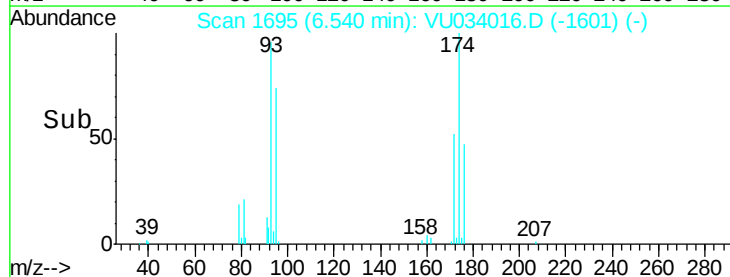
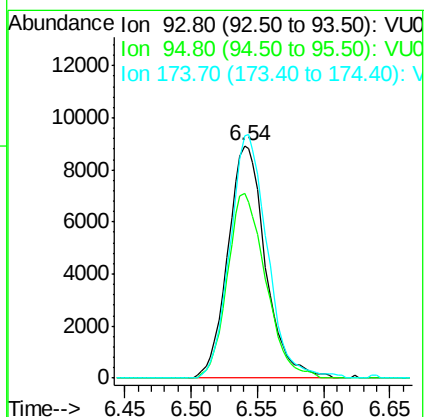
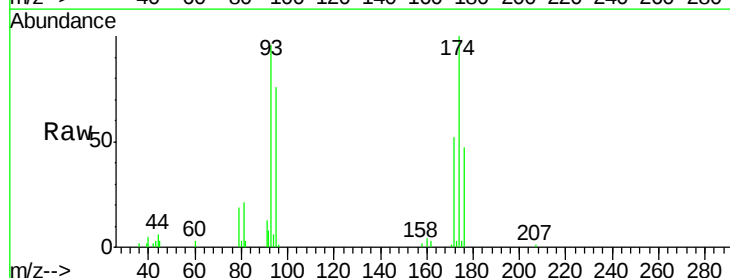
Tgt Ion: 93 Resp: 17627

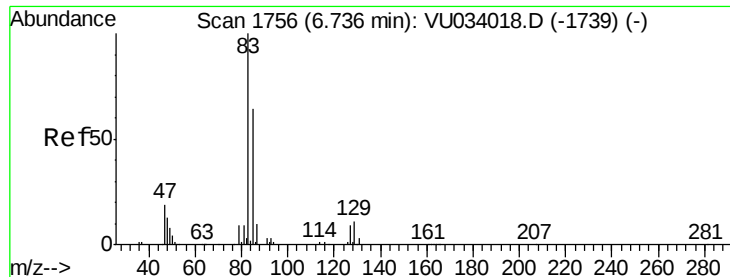
Ion Ratio Lower Upper

93 100

95 80.6 66.7 100.1

174 103.9 84.9 127.3





#47

Bromodichloromethane

Concen: 5.274 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

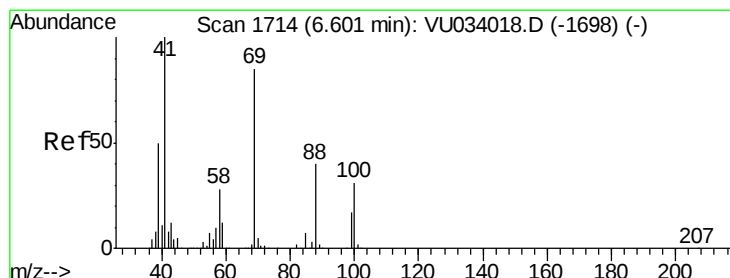
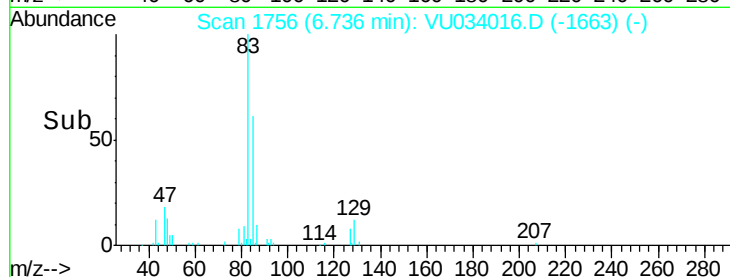
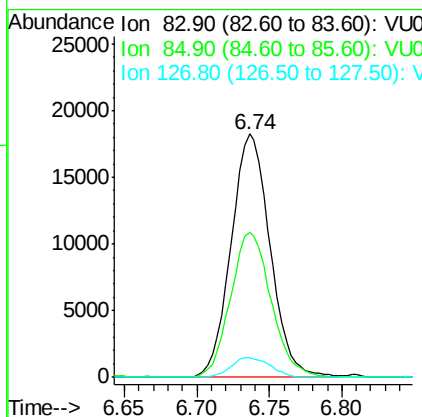
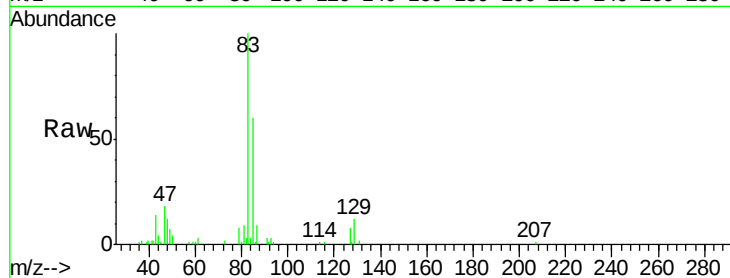
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	34212
Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.2	76.8
127	8.3	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.970 ug/l

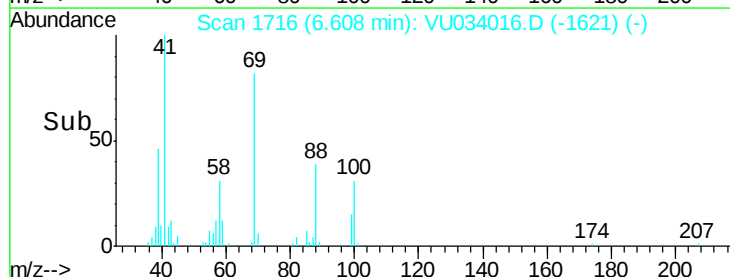
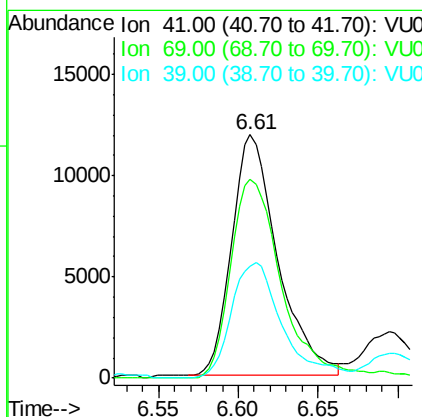
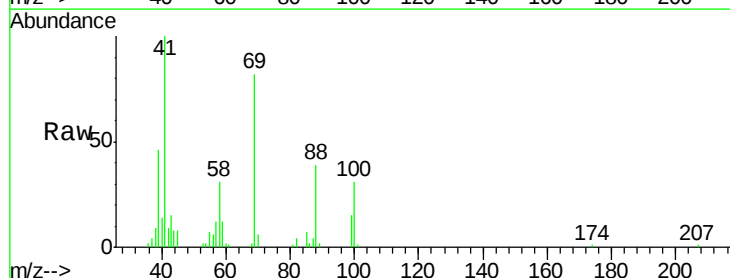
RT: 6.61 min Scan# 1716

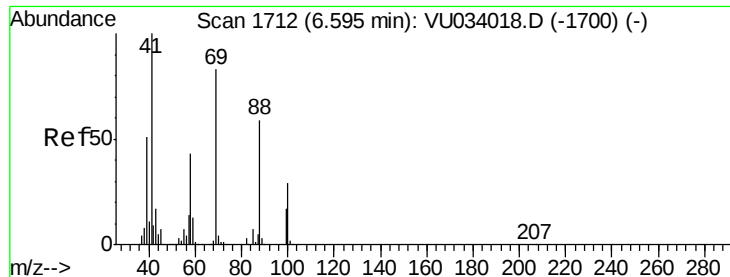
Delta R.T. 0.01 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion:	41	Resp:	23550
Ion	Ratio	Lower	Upper
41	100		
69	90.3	69.5	104.3
39	52.6	40.3	60.5





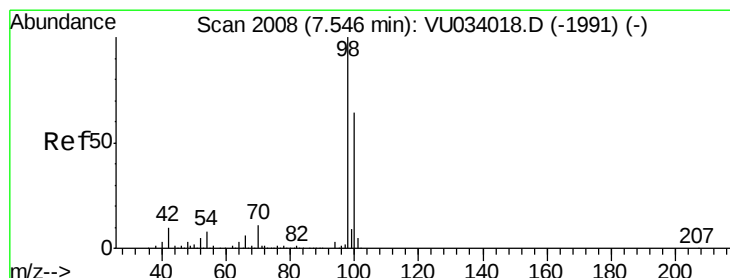
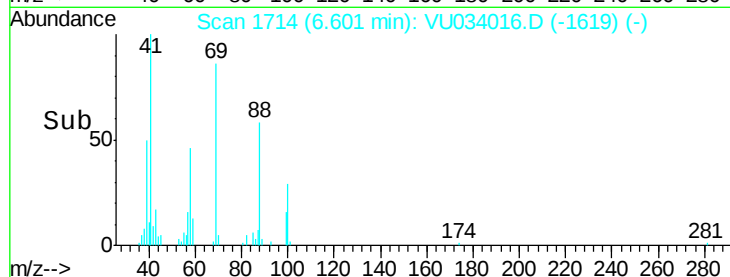
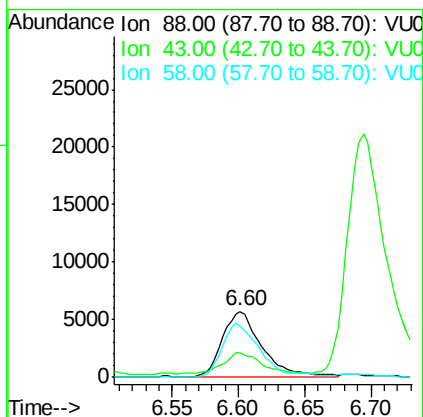
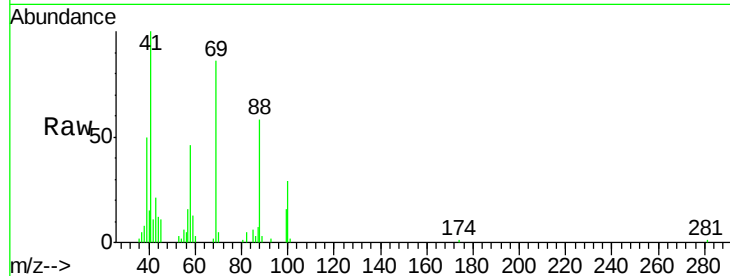
#49
1,4-Dioxane
Concen: 95.349 ug/l
RT: 6.60 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.7	24.8	37.2
58	77.8	59.3	88.9

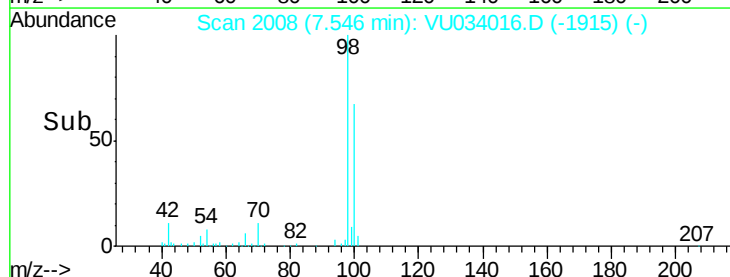
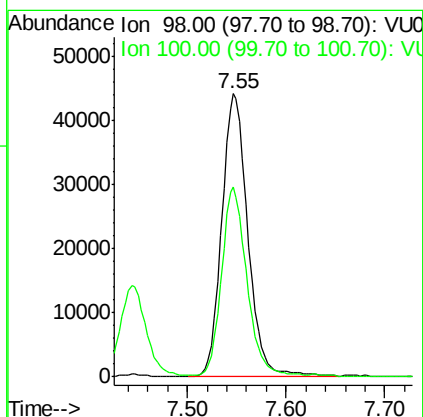
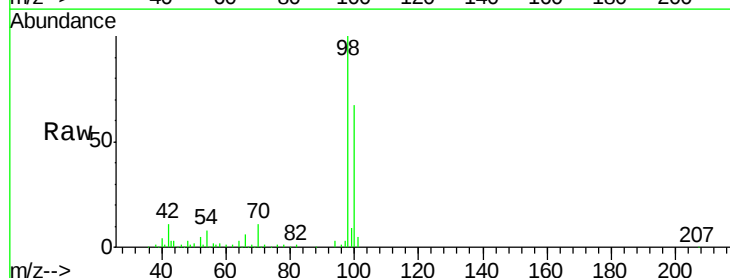
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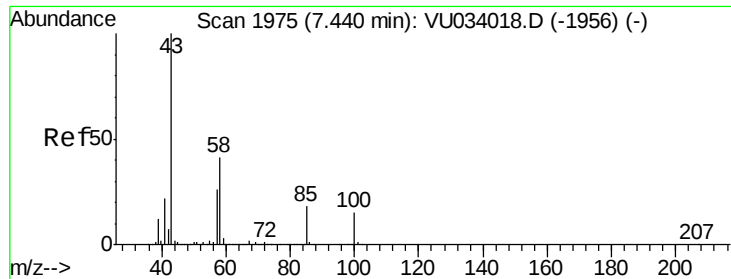
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#50
Toluene-d8
Concen: 4.828 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	50.3	75.5





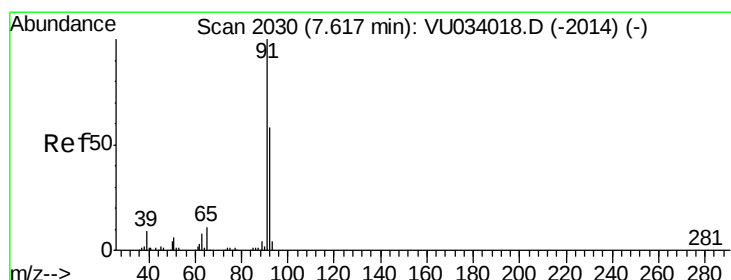
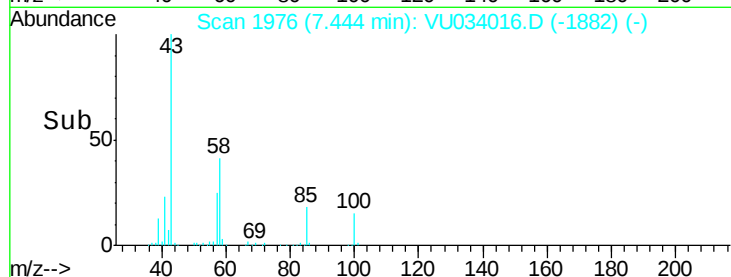
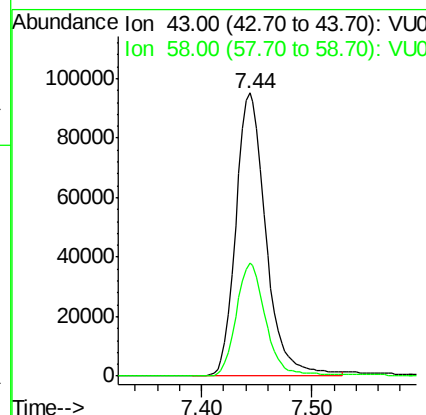
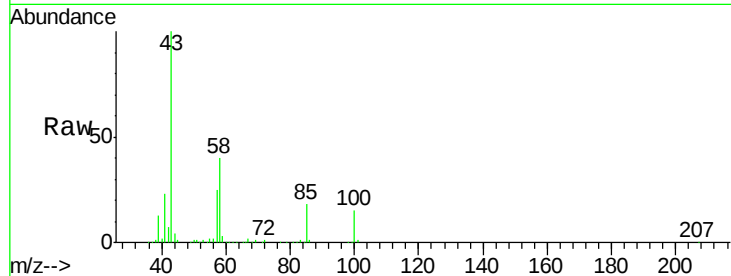
#51
4-Methyl-2-Pentanone
Concen: 26.108 ug/l
RT: 7.44 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.4	32.2	48.4

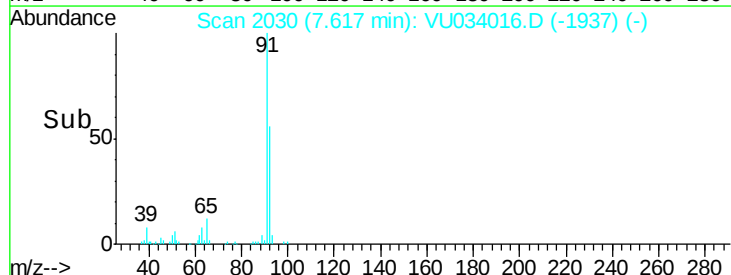
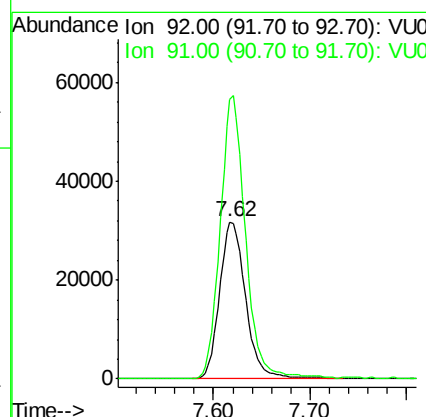
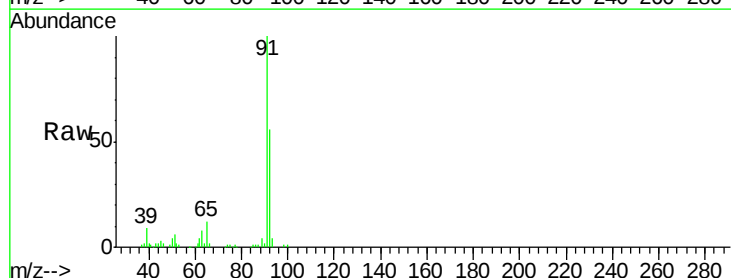
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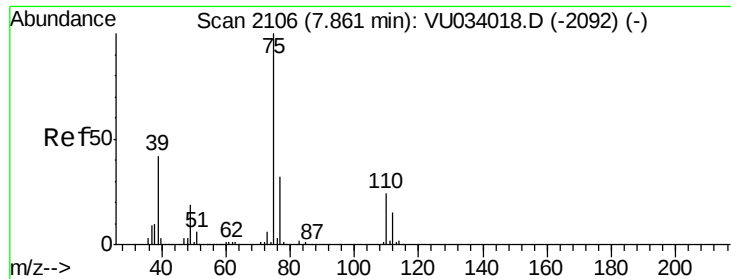
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#52
Toluene
Concen: 5.064 ug/l
RT: 7.62 min Scan# 2030
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.6	138.3	207.5





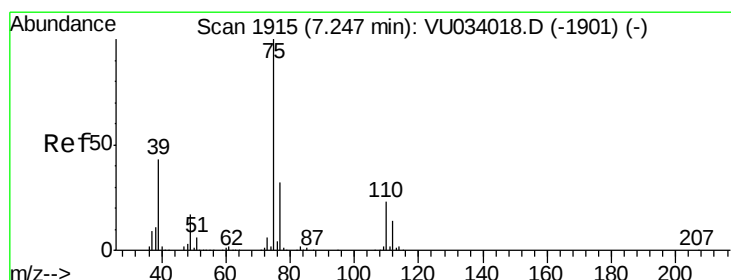
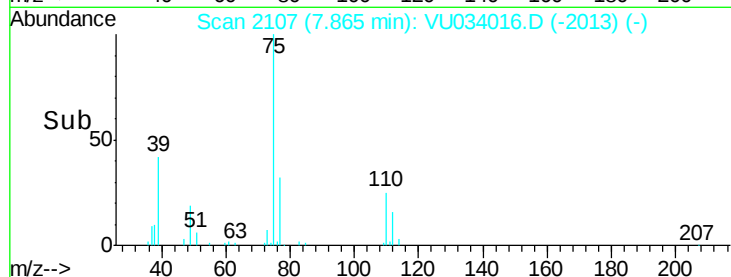
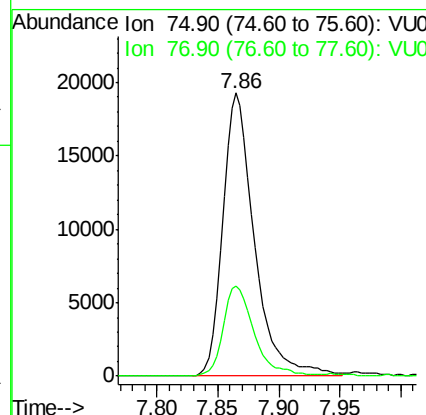
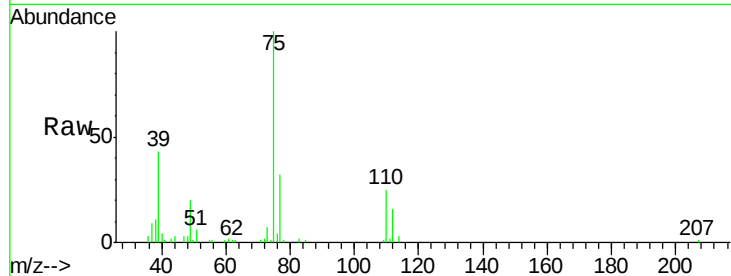
#53
t-1,3-Dichloropropene
Concen: 4.859 ug/l
RT: 7.86 min Scan# 2107
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.0

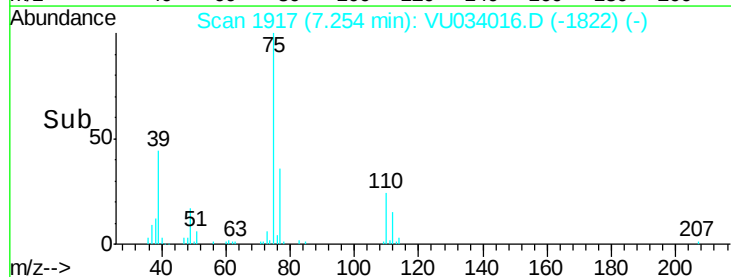
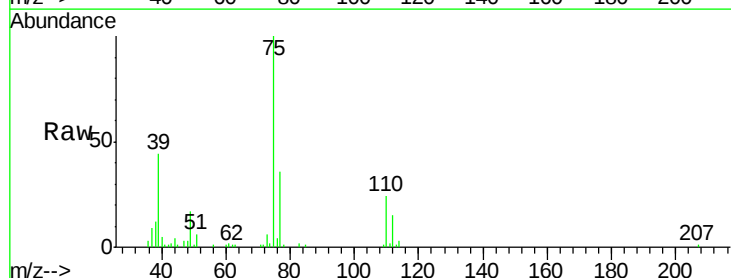
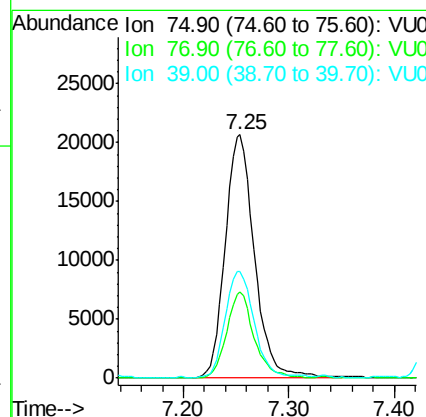
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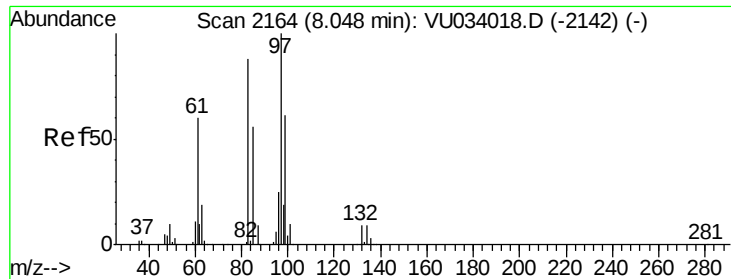
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#54
cis-1,3-Dichloropropene
Concen: 5.115 ug/l
RT: 7.25 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	35.6	25.2	37.8
39	43.7	34.6	51.8





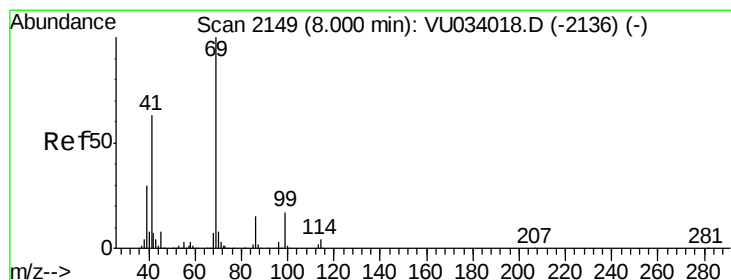
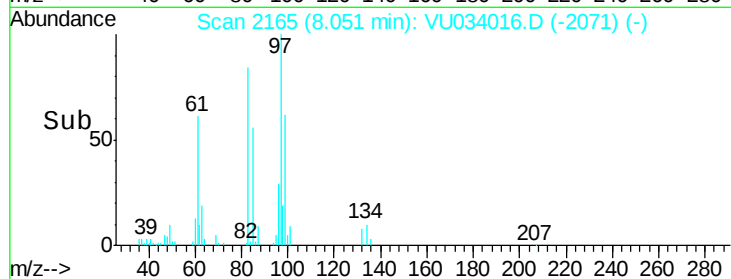
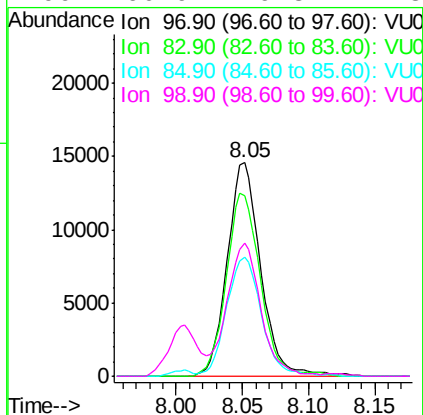
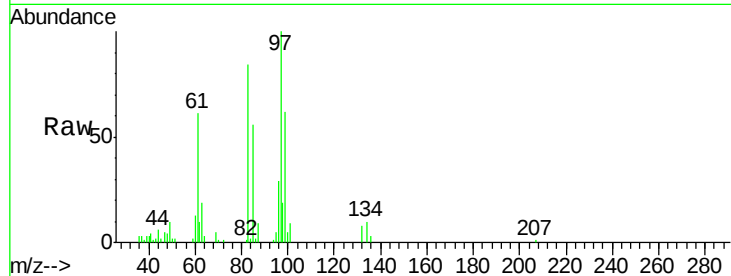
#55
 1,1,2-Trichloroethane
 Concen: 5.085 ug/l
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	25469
Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.1	105.1
85	54.8	45.0	67.4
99	60.9	49.8	74.8

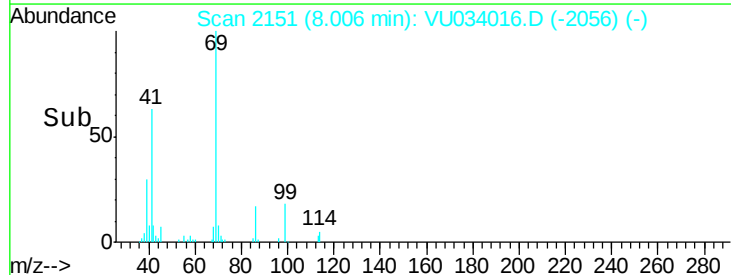
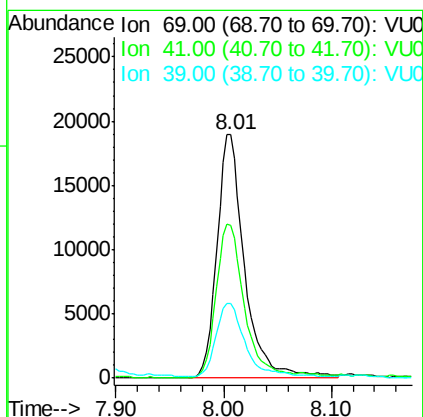
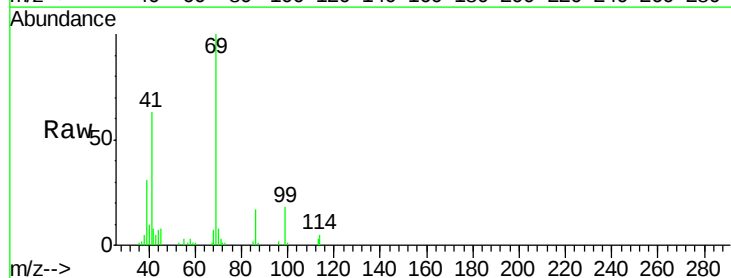
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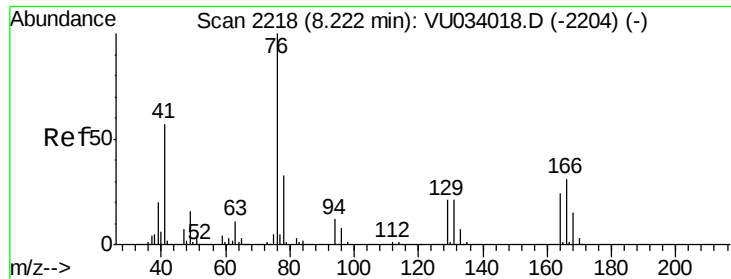
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#56
 Ethyl methacrylate
 Concen: 4.732 ug/l
 RT: 8.01 min Scan# 2151
 Delta R.T. 0.01 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion:	69	Resp:	33777
Ion	Ratio	Lower	Upper
69	100		
41	64.4	50.7	76.1
39	31.6	24.2	36.2





#57

1,3-Dichloropropane

Concen: 5.230 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.01 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 42611

Ion Ratio Lower Upper

76 100

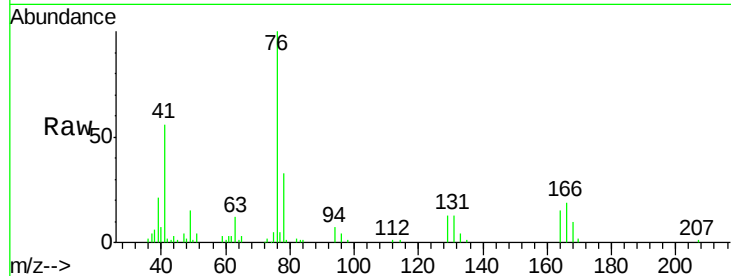
78 33.4 26.2 39.4

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Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)

25000

20000

15000

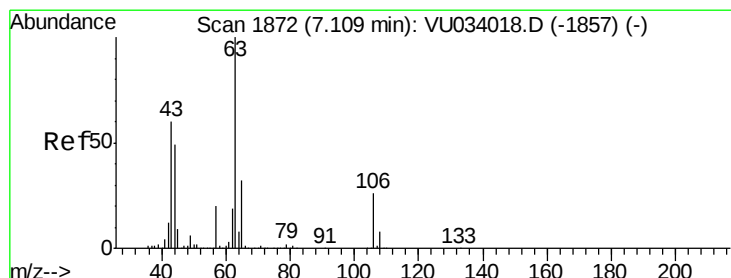
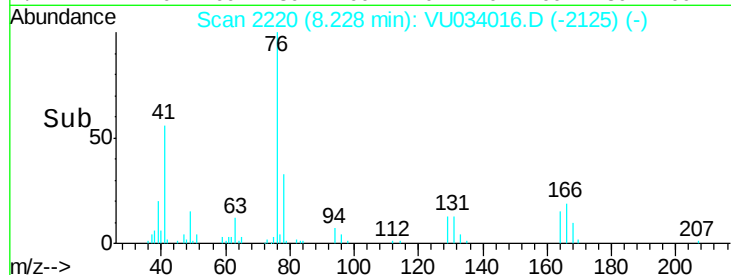
10000

5000

0

8.15 8.20 8.25 8.30

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 24.391 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034016.D

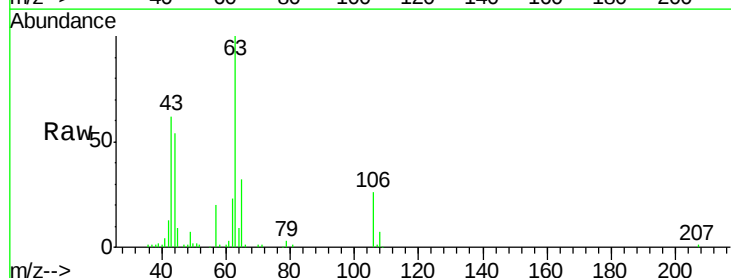
Acq: 28 Aug 2019 12:02

Tgt Ion: 63 Resp: 64035

Ion Ratio Lower Upper

63 100

106 25.7 20.7 31.1



Abundance Ion 62.90 (62.60 to 63.60): VU034018.D (-1857) (-)

Ion 105.90 (105.60 to 106.60): VU034018.D (-1857) (-)

40000

30000

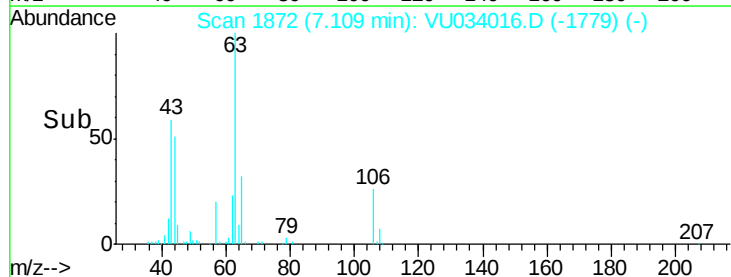
20000

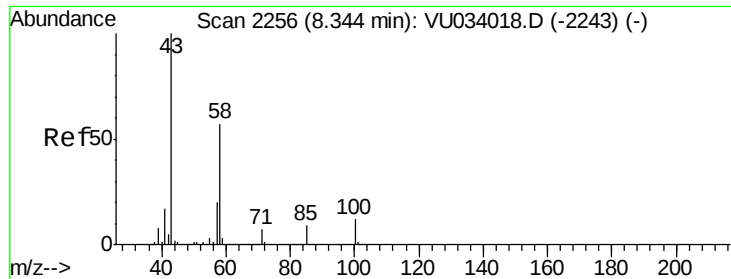
10000

0

7.05 7.10 7.15 7.20

Time-->





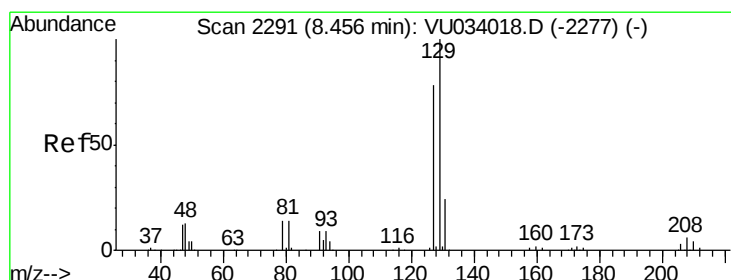
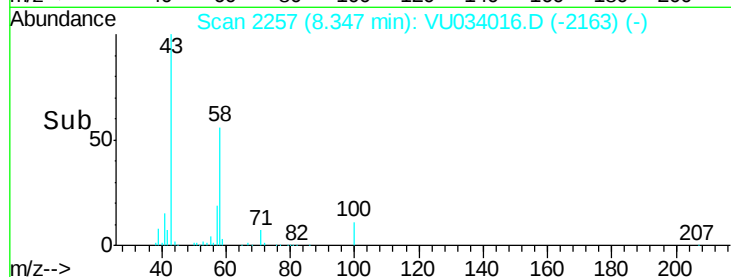
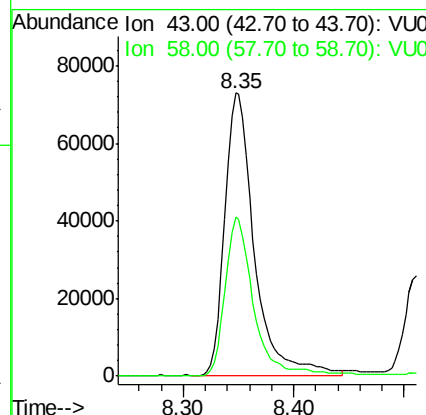
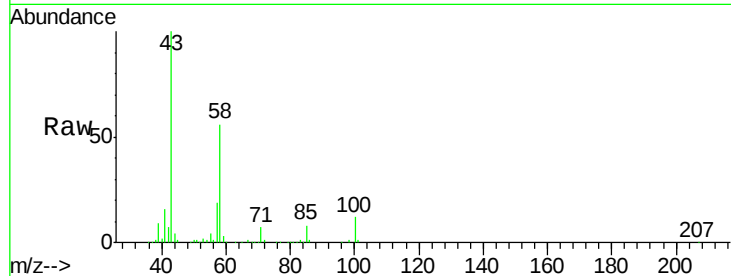
#59
2-Hexanone
Concen: 25.793 ug/l
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.3	28.4	85.3

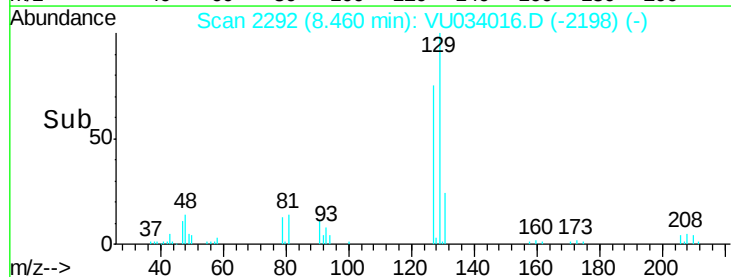
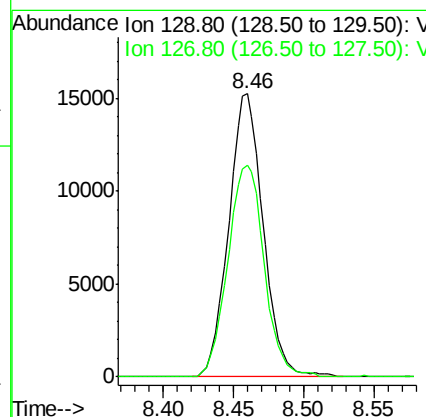
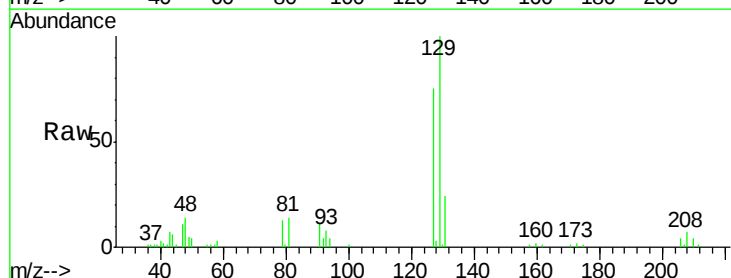
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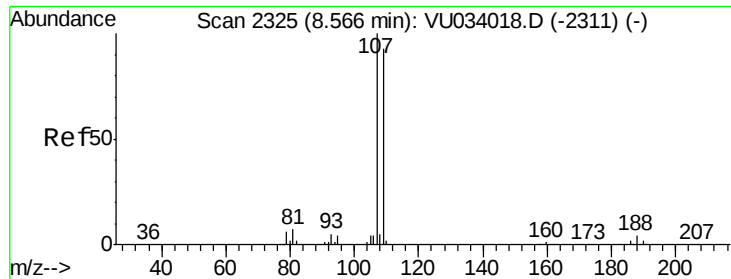
MMDadoda
8/29/2019 8:27:30 AM



#60
Dibromochloromethane
Concen: 4.671 ug/l
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.0	116.9





#61

1,2-Dibromoethane

Concen: 5.060 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 26598

Ion Ratio Lower Upper

107 100

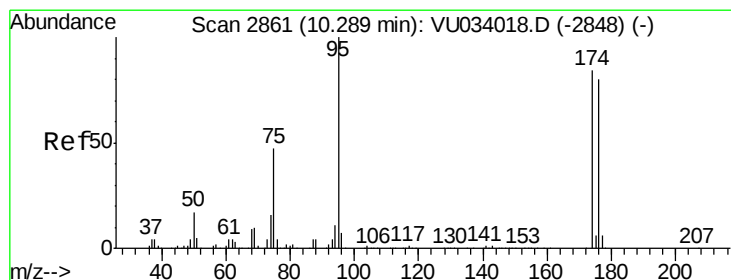
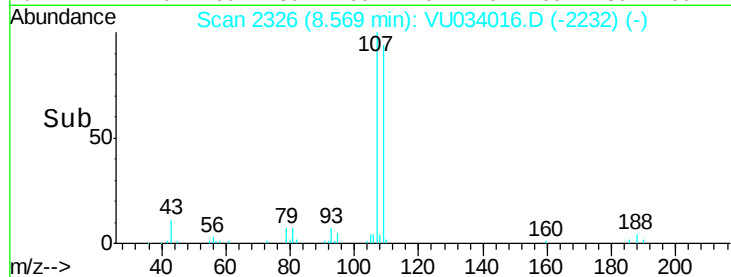
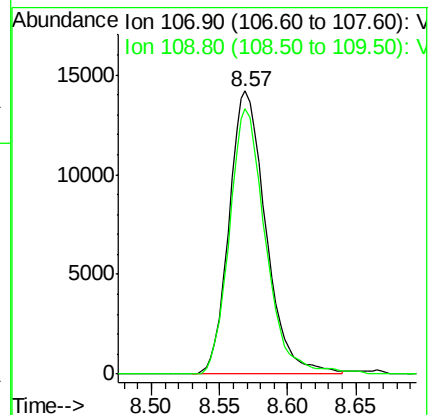
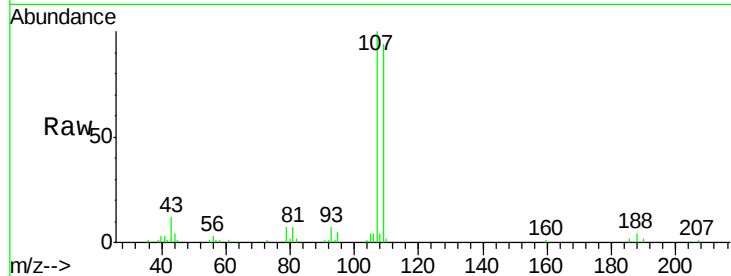
109 90.8 75.2 112.8

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#62

4-Bromofluorobenzene

Concen: 5.349 ug/l

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

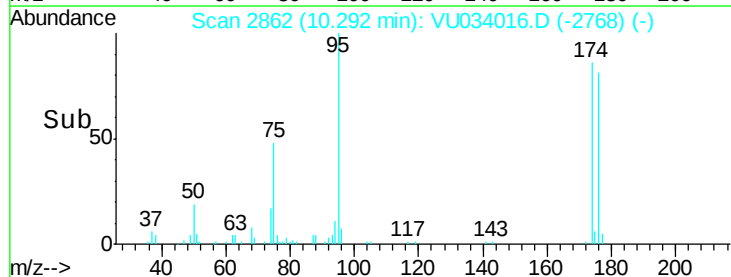
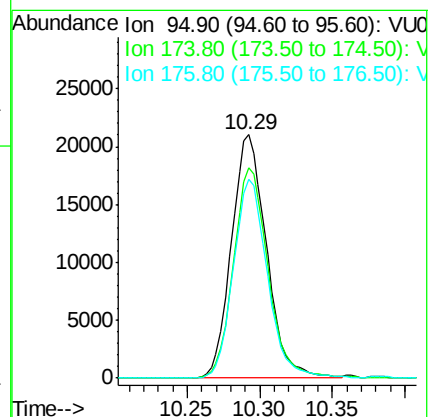
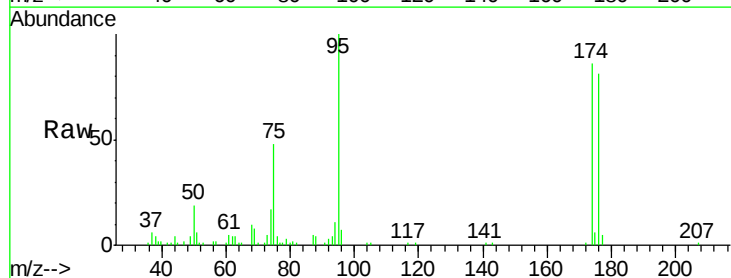
Tgt Ion: 95 Resp: 35249

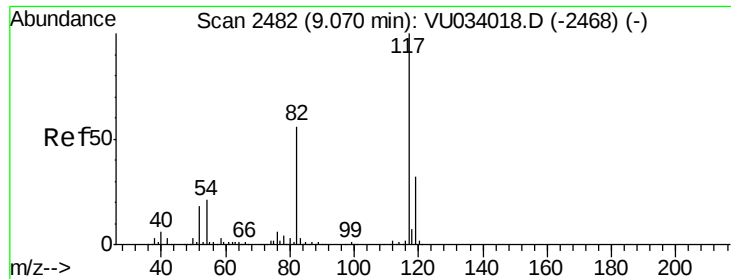
Ion Ratio Lower Upper

95 100

174 85.3 0.0 168.8

176 79.1 0.0 161.8





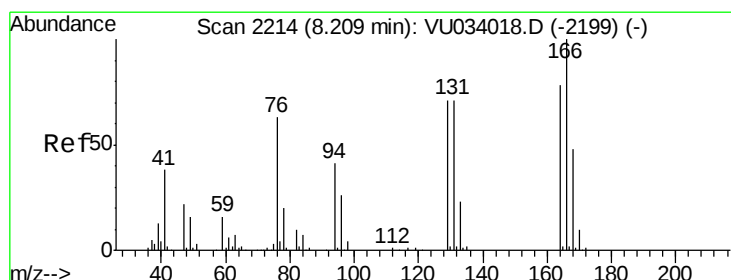
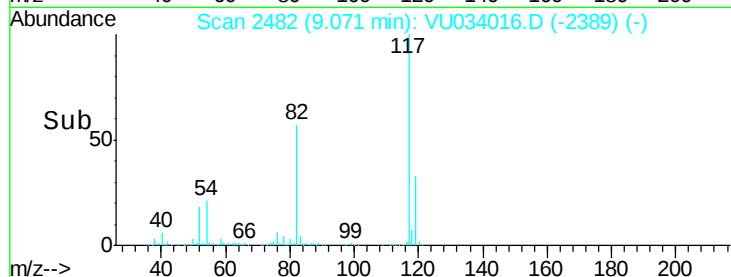
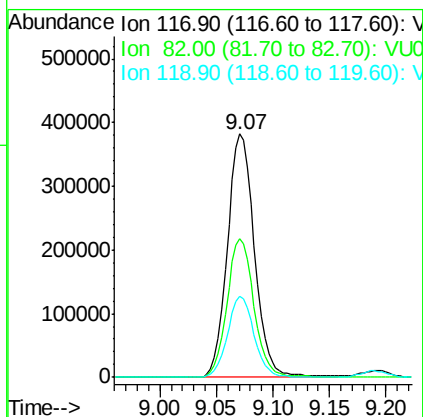
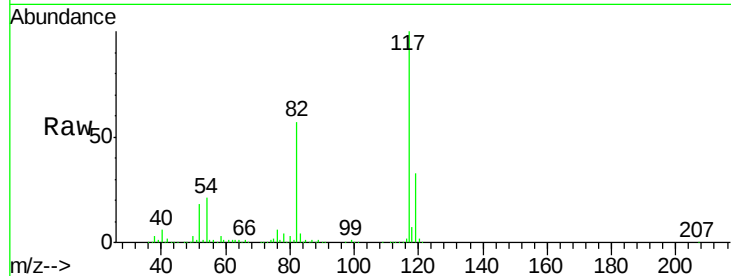
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.1	67.7
119	33.2	25.4	38.0

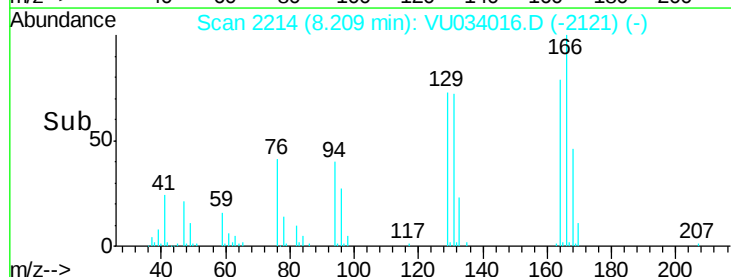
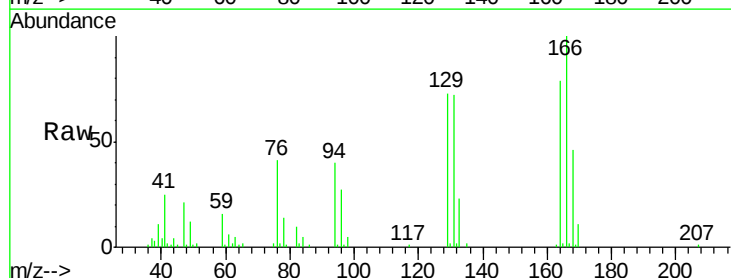
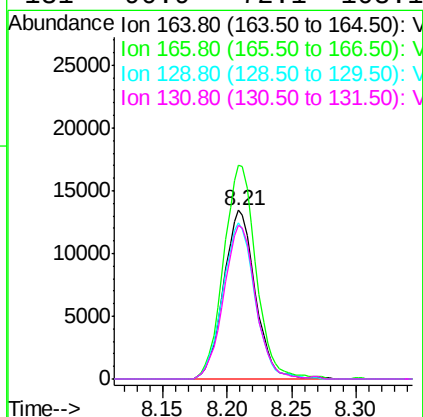
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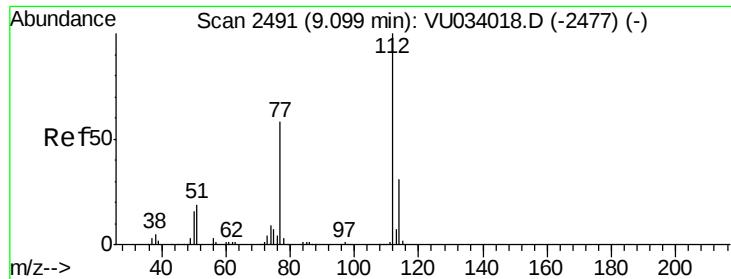
MMDadoda
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#64
Tetrachloroethene
Concen: 4.549 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	102.2	153.2
129	92.6	72.4	108.6
131	90.9	72.1	108.1





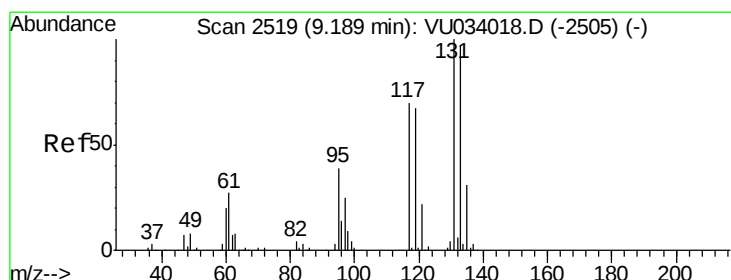
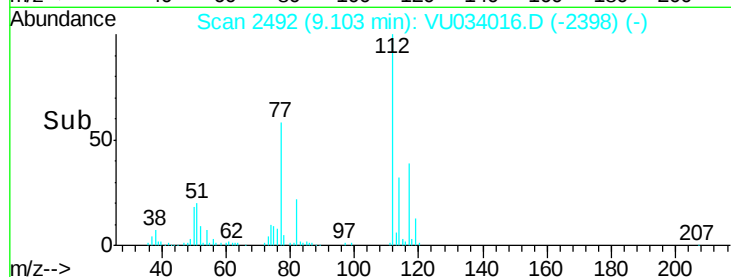
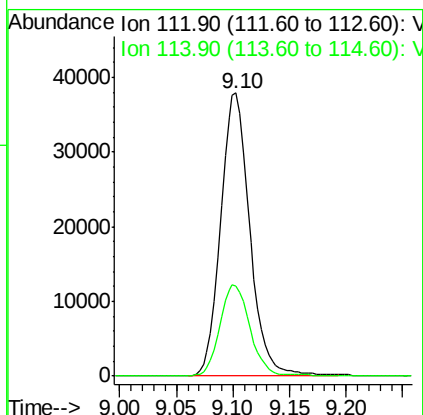
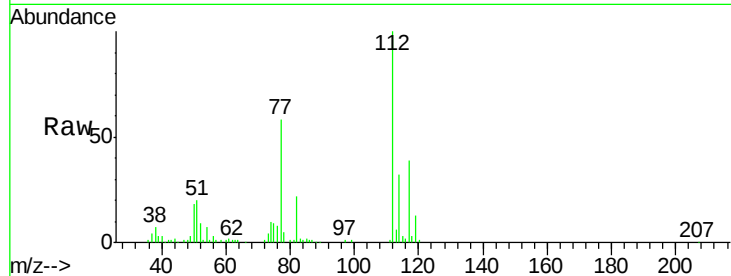
#65
Chlorobenzene
Concen: 5.101 ug/l
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 68005
Ion Ratio Lower Upper
112 100
114 31.7 25.0 37.4

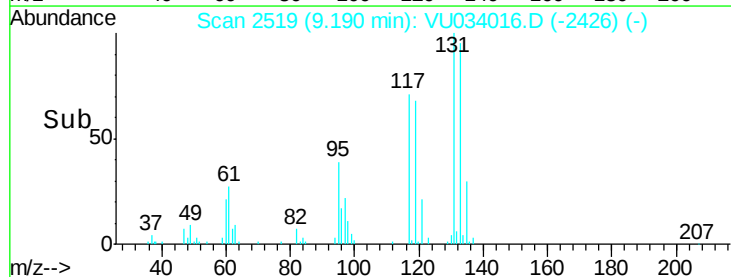
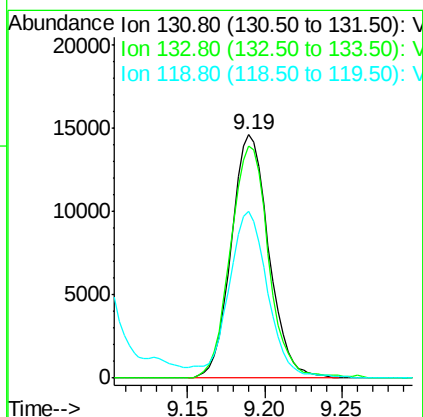
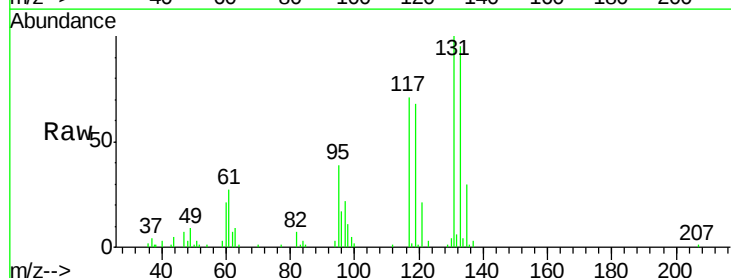
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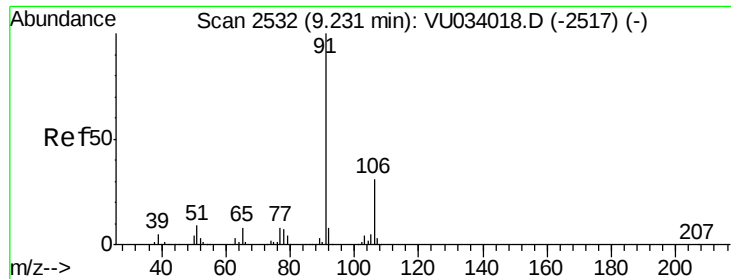
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.991 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion:131 Resp: 24586
Ion Ratio Lower Upper
131 100
133 97.2 48.4 145.2
119 71.0 33.6 100.6





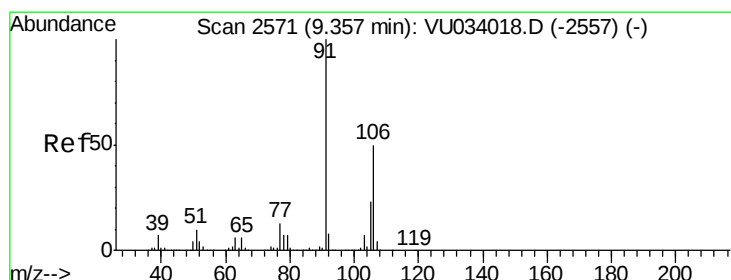
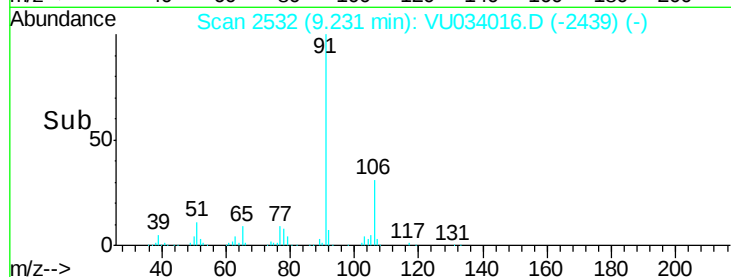
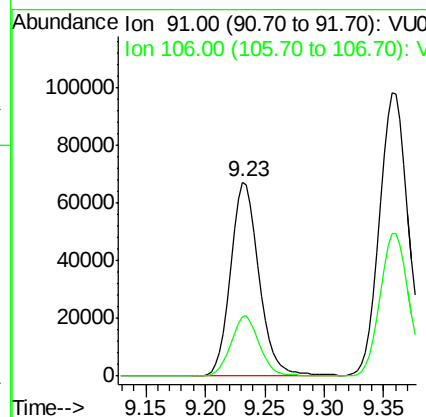
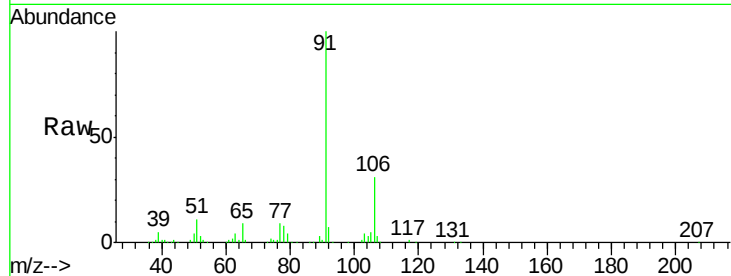
#67
Ethyl Benzene
Concen: 5.005 ug/l
RT: 9.23 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.9	37.3

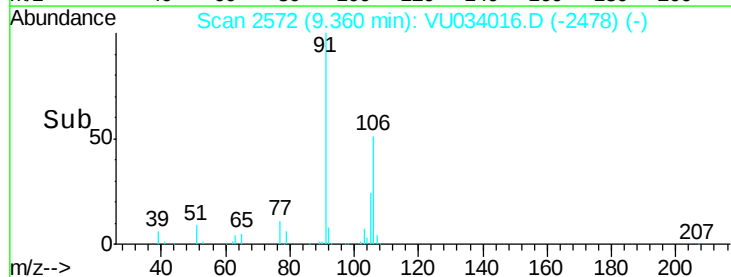
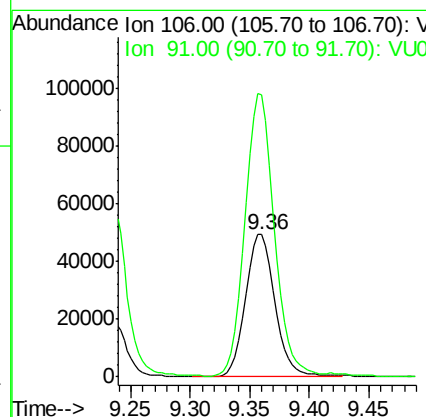
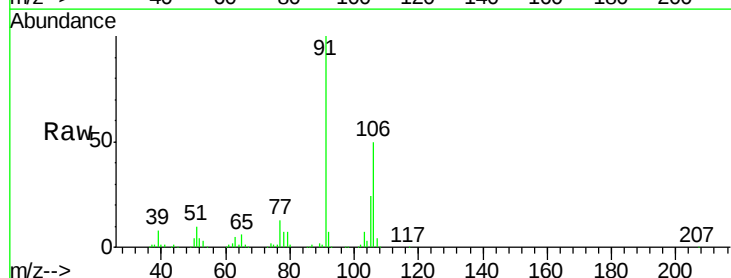
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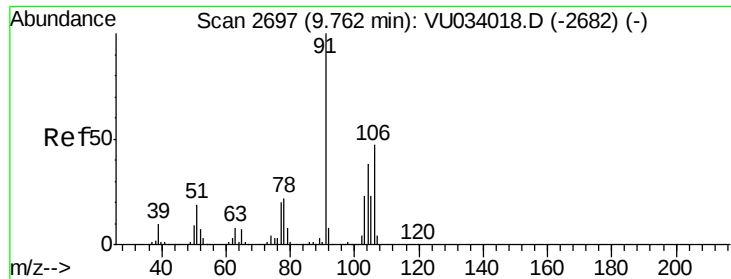
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#68
m/p-Xylenes
Concen: 9.873 ug/l
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.8	161.6	242.4





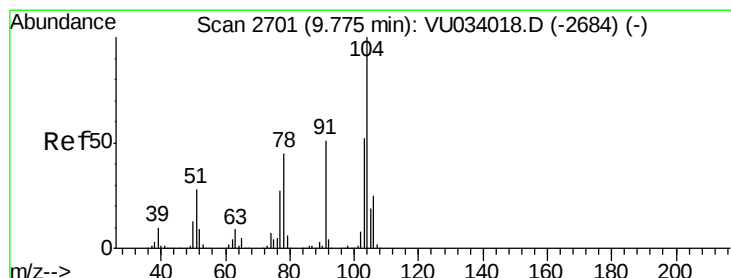
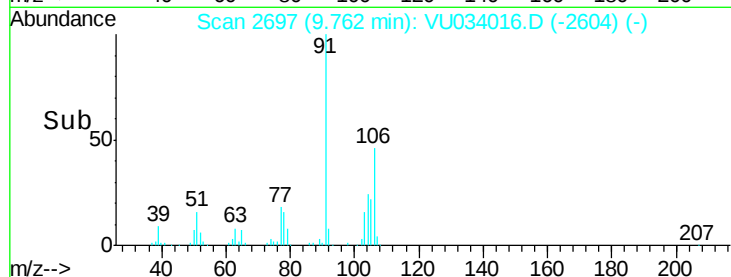
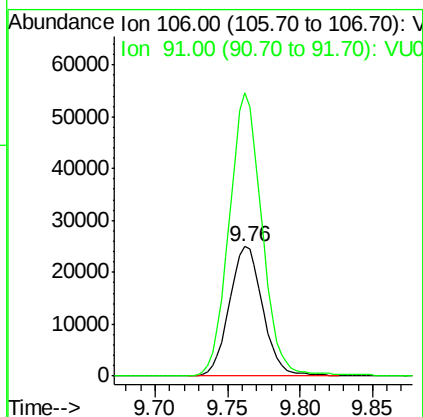
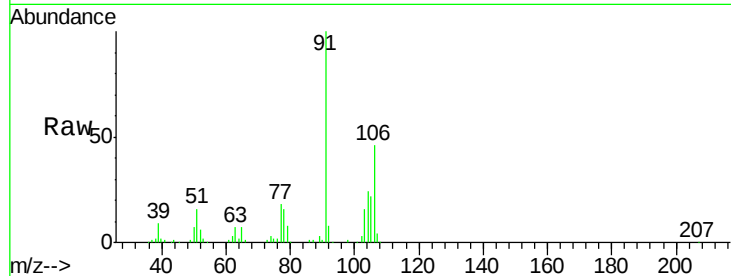
#69
o-Xylene
Concen: 4.863 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.5	106.0	318.0

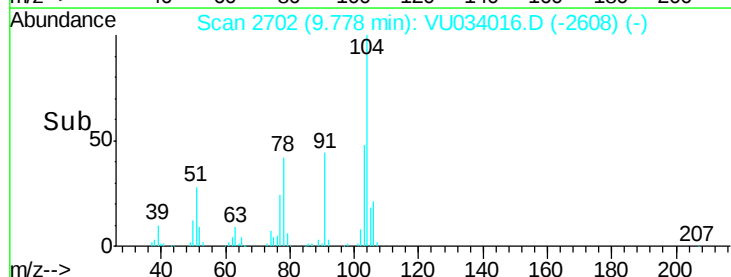
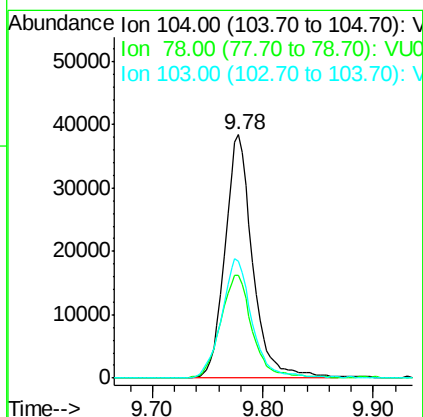
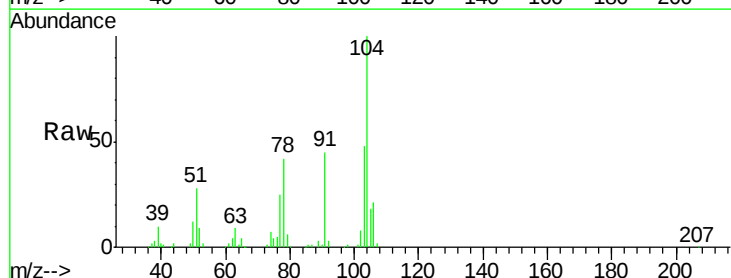
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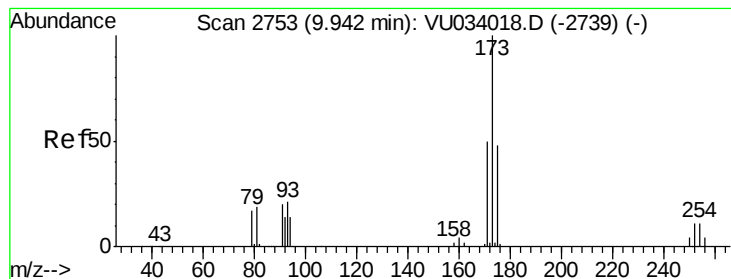
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#70
Styrene
Concen: 4.758 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.2	39.0	58.4
103	53.7	44.0	66.0





#71

Bromoform

Concen: 4.722 ug/l

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

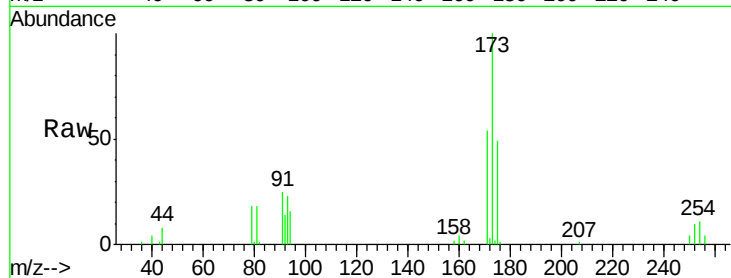
ClientSampleId :

VSTDIC005

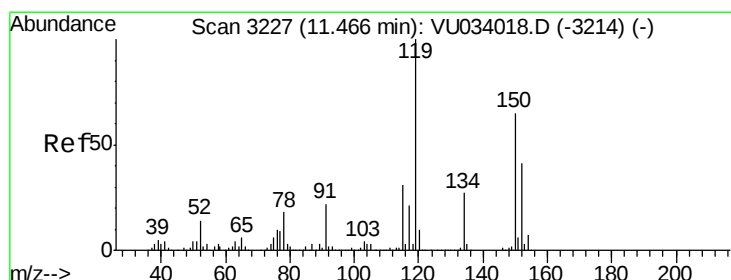
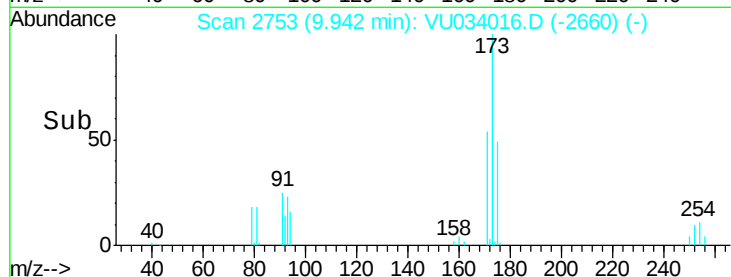
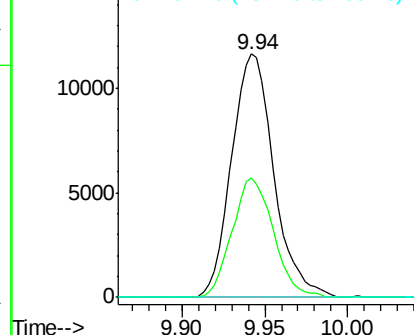
Tot Ion:	173	Resp:	20590
Ion Ratio	Lower	Upper	
173	100		
175	47.9	24.6	73.6
254	0.0	0.0	0.0

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

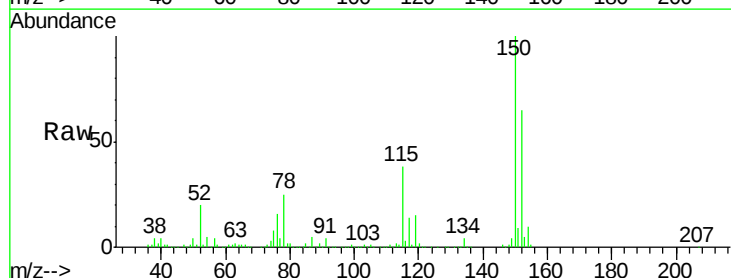
RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

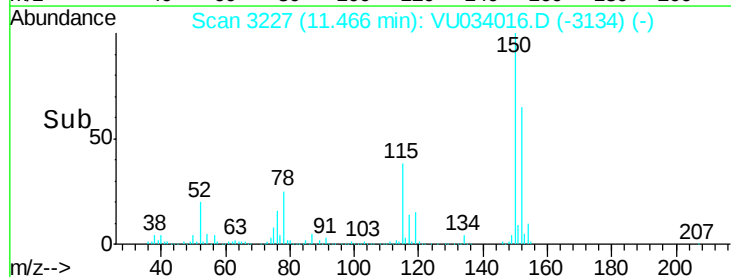
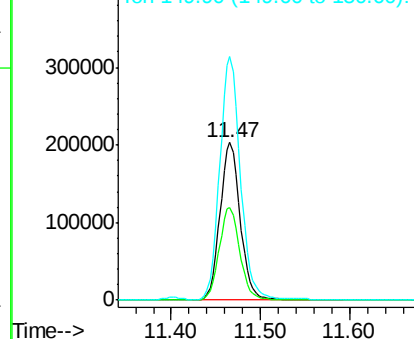
Lab File: VU034016.D

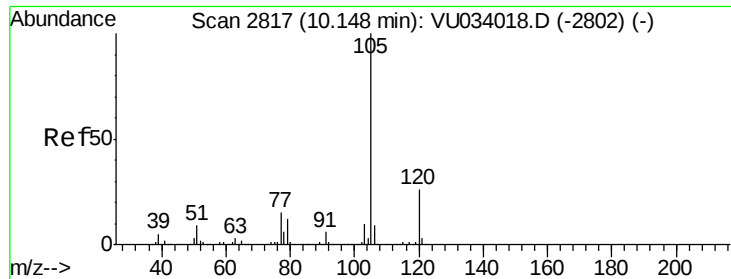
Acq: 28 Aug 2019 12:02

Tgt Ion:	152	Resp:	320562
Ion Ratio	Lower	Upper	
152	100		
115	59.8	41.1	123.3
150	156.3	0.0	348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.048 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 106811

Ion Ratio Lower Upper

105 100

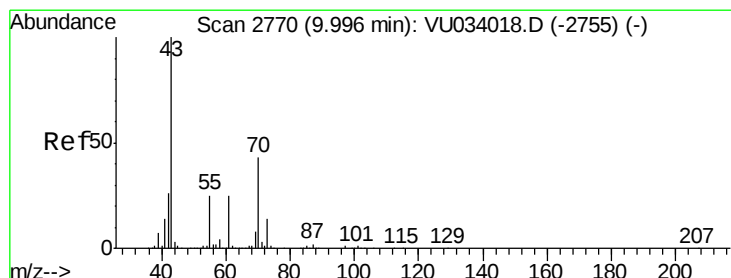
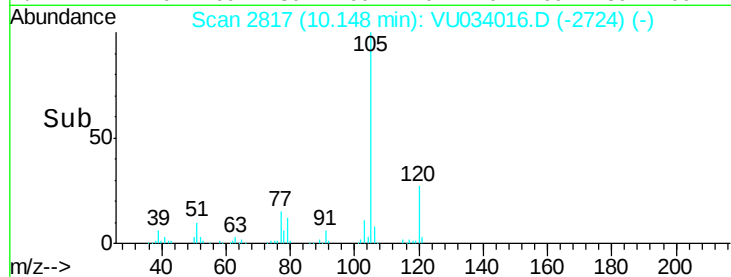
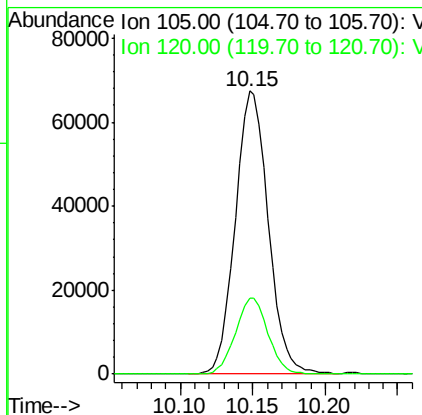
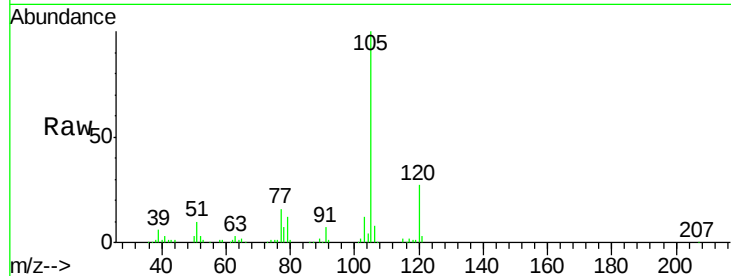
120 26.6 13.3 39.8

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#74

N-ethyl acetate

Concen: 5.070 ug/l

RT: 10.00 min Scan# 2771

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion: 43 Resp: 41235

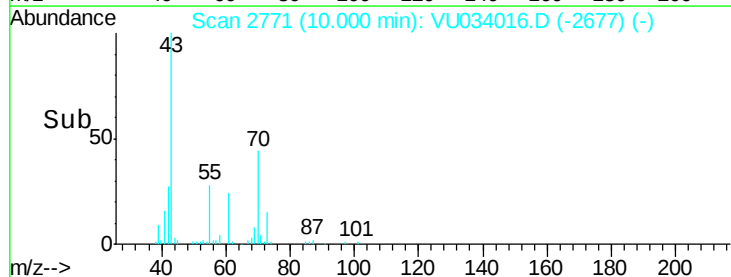
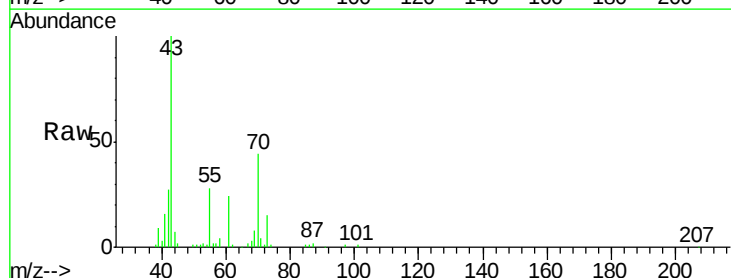
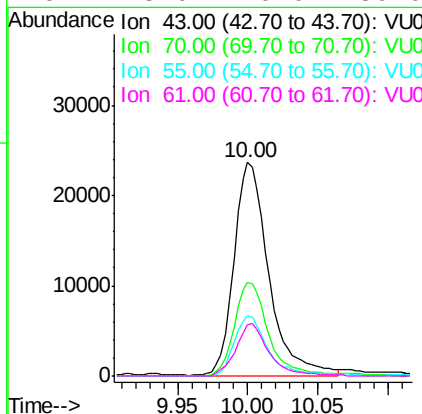
Ion Ratio Lower Upper

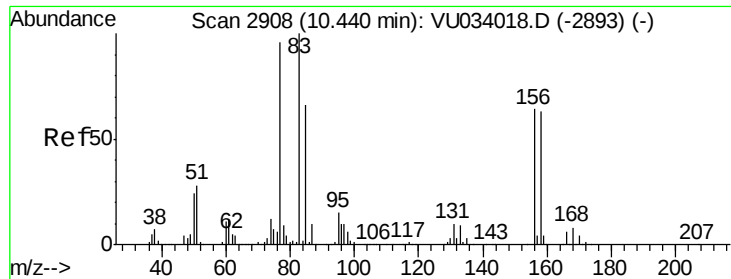
43 100

70 42.6 35.2 52.8

55 27.2 20.5 30.7

61 23.0 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.591 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 83 Resp: 43002

Ion Ratio Lower Upper

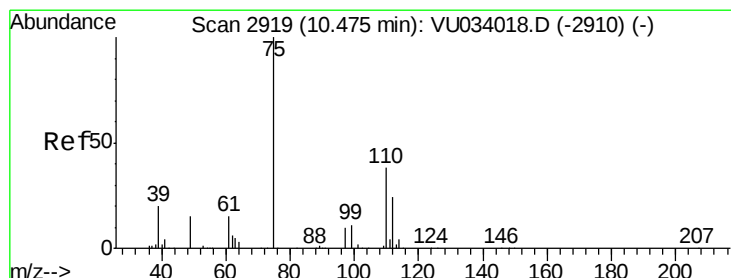
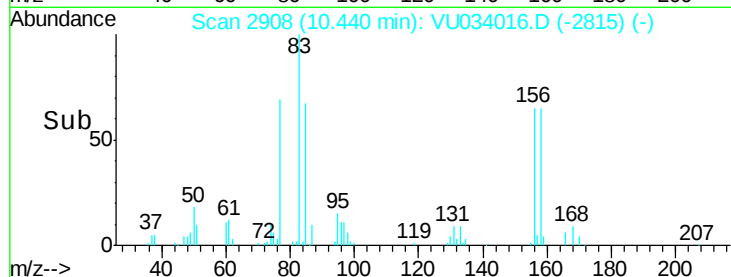
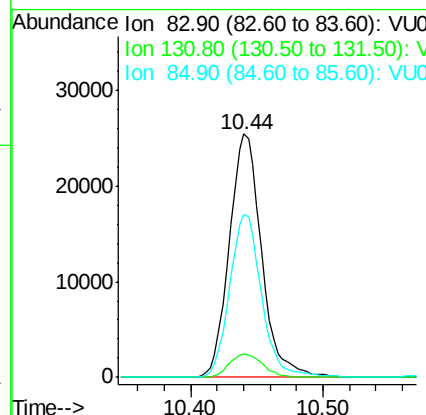
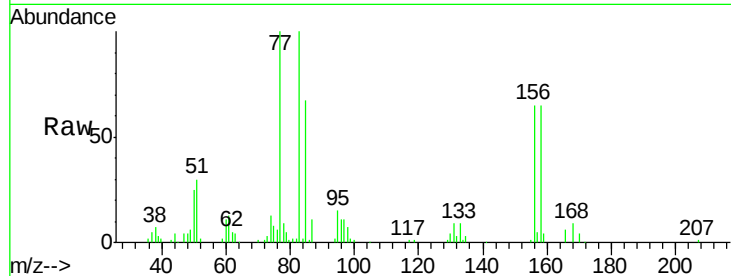
83 100

131 9.9 5.0 14.9

85 66.1 32.2 96.6

Manual Integrations
APPROVED

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#76

1,2,3-Trichloropropane

Concen: 5.811 ug/l m

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU034016.D

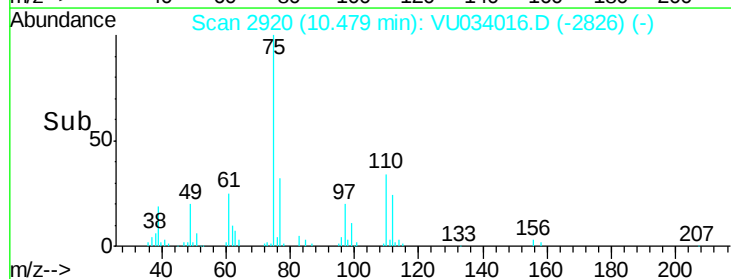
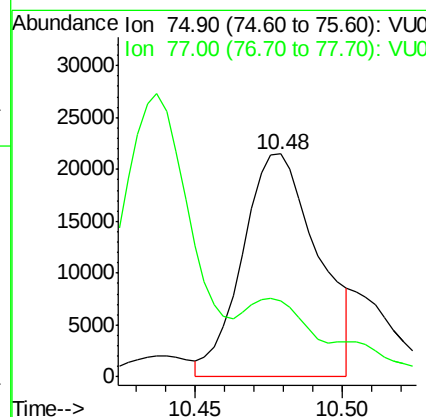
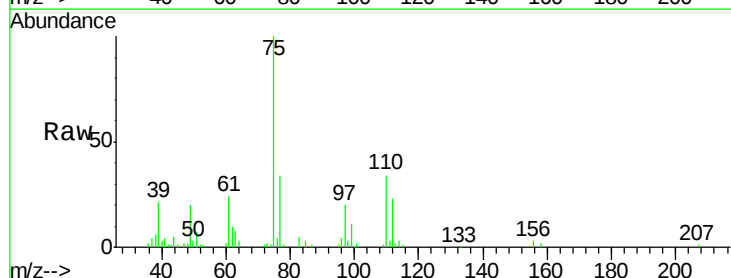
Acq: 28 Aug 2019 12:02

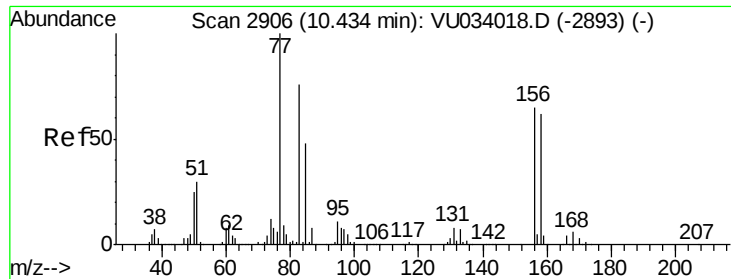
Tgt Ion: 75 Resp: 38307

Ion Ratio Lower Upper

75 100

77 11.1 20.1 60.2#





#77

Bromobenzene

Concen: 4.969 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 29439

Ion Ratio Lower Upper

156 100

77 156.2 76.8 230.5

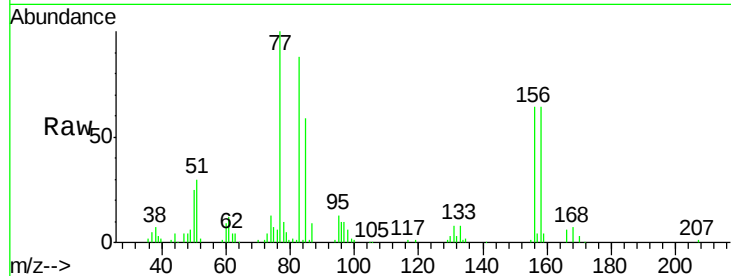
158 100.3 48.4 145.0

Manual Integrations

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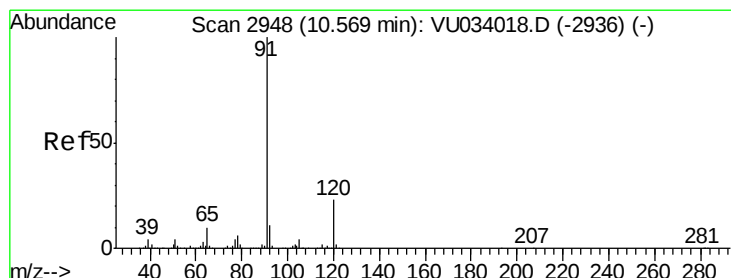
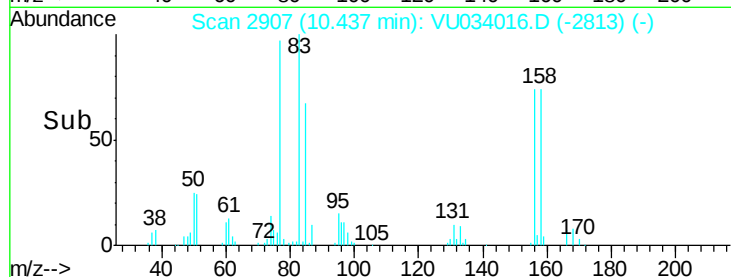
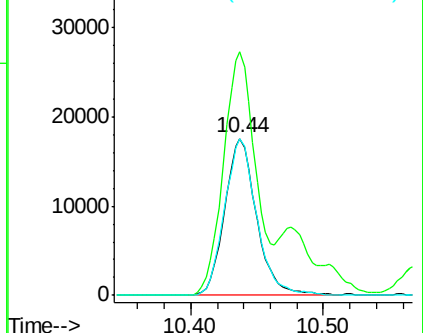
8/29/2019 8:27:30 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.051 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU034016.D

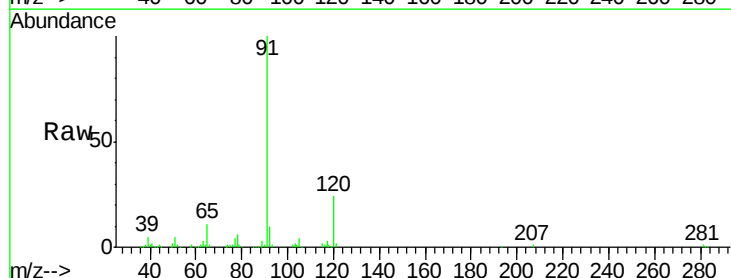
Acq: 28 Aug 2019 12:02

Tgt Ion: 91 Resp: 121696

Ion Ratio Lower Upper

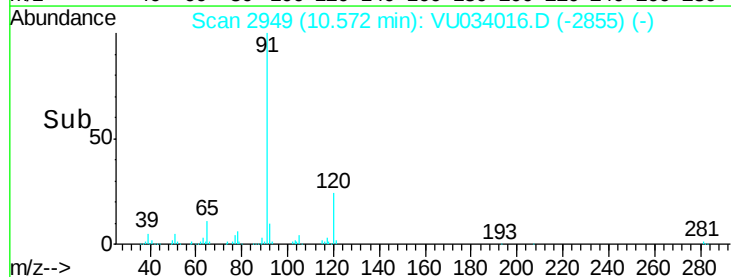
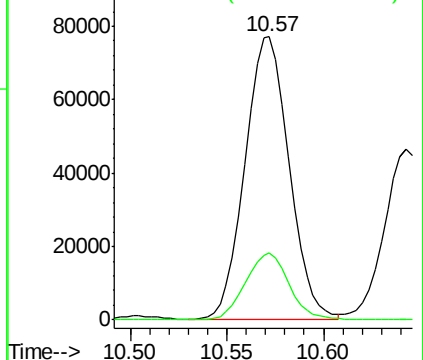
91 100

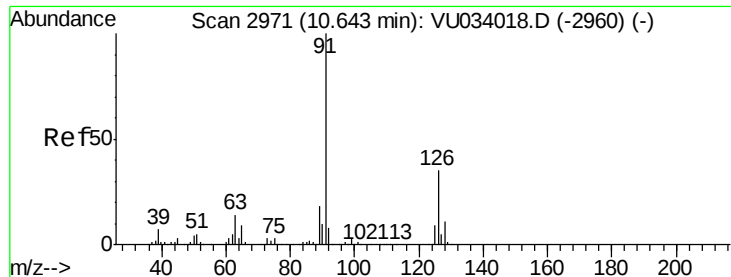
120 23.6 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.248 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 76367

Ion Ratio Lower Upper

91 100

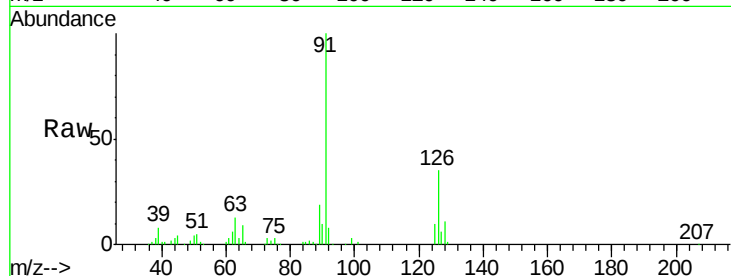
126 34.2 17.1 51.2

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Abundance Ion 91.00 (90.70 to 91.70): VU034018.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU034018.D (-2960) (-)

80000

60000

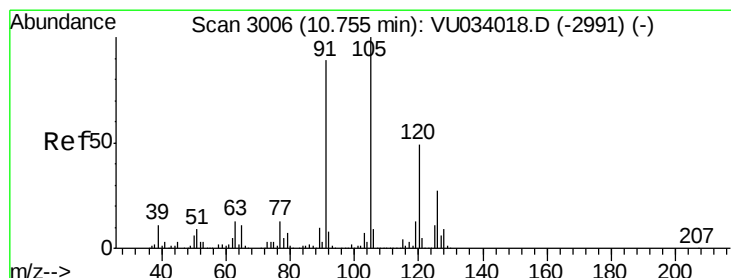
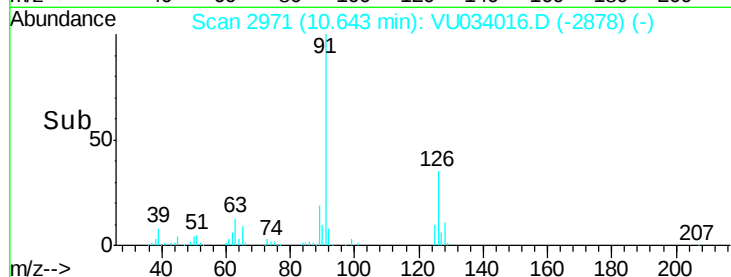
40000

20000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.024 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034016.D

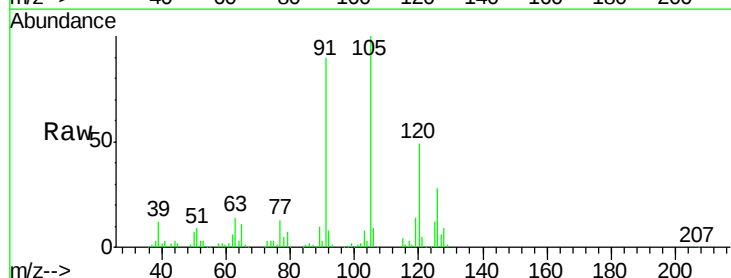
Acq: 28 Aug 2019 12:02

Tgt Ion: 105 Resp: 90939

Ion Ratio Lower Upper

105 100

120 50.1 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VU034018.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034018.D (-2991) (-)

60000

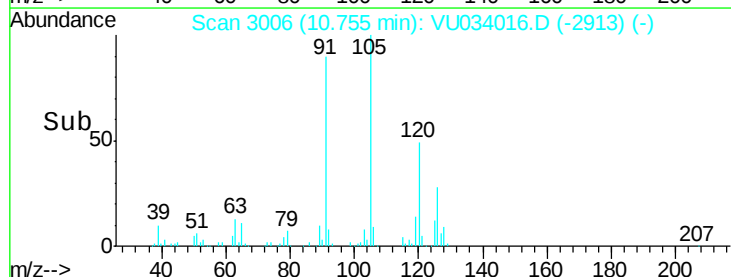
40000

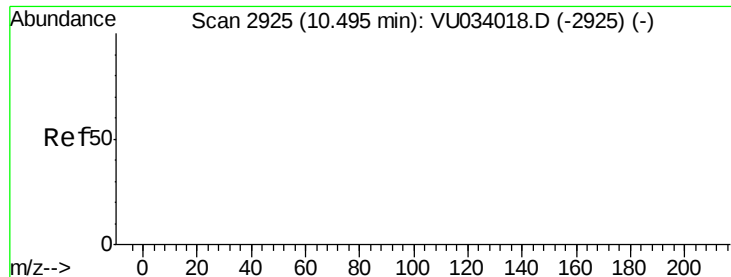
20000

0

10.70 10.80

Time-->





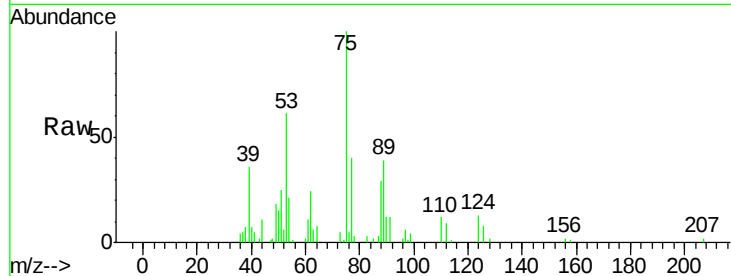
#81
trans-1,4-Dichloro-2-butene
Concen: 3.960 ug/l m
RT: 10.50 min Scan# 2927
Delta R.T. 0.01 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
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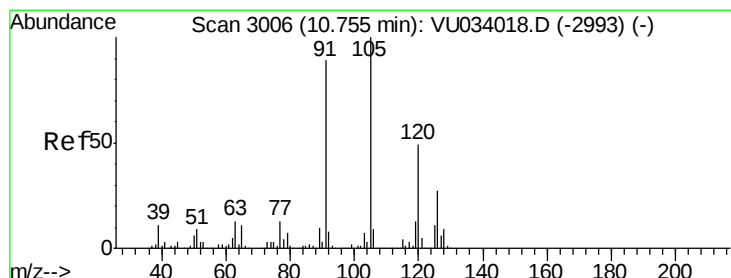
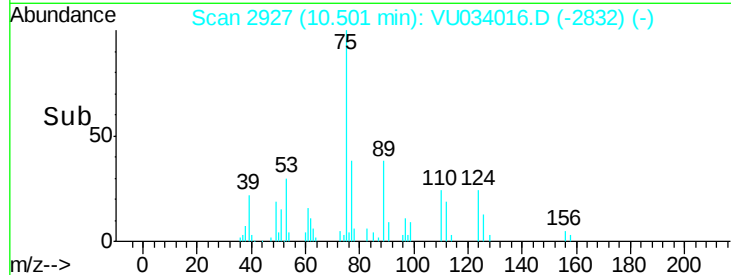
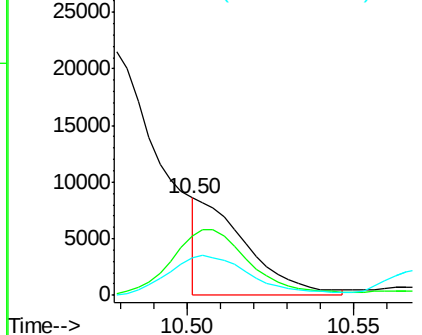
MMDadoda
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Abundance Ion 74.90 (74.60 to 75.60): VU034016.D (-2925) (-)

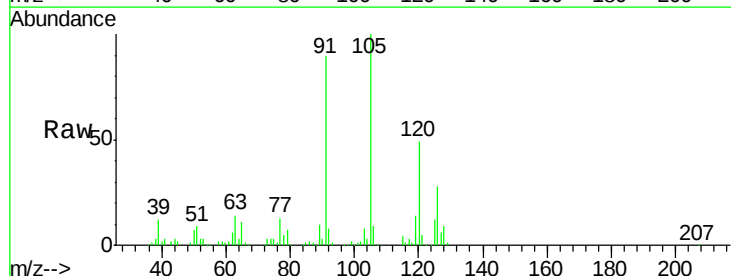
Ion 53.00 (52.70 to 53.70): VU034016.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034016.D (-2925) (-)



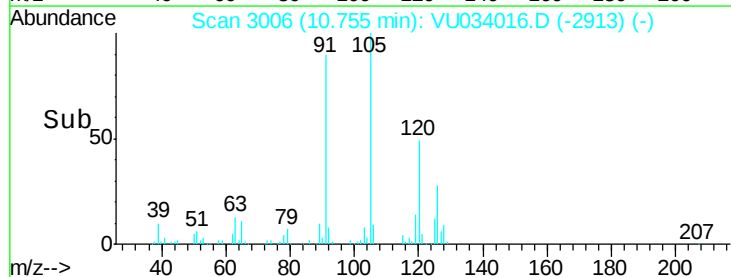
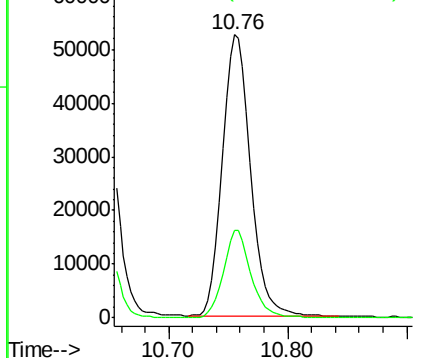
#82
4-Chlorotoluene
Concen: 5.144 ug/l
RT: 10.76 min Scan# 3006
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

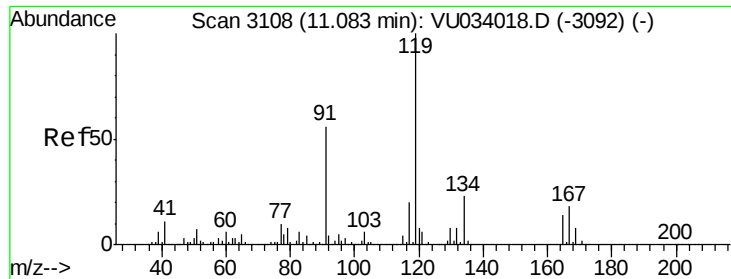
Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.4	15.0	45.1



Abundance Ion 91.00 (90.70 to 91.70): VU034016.D (-2993) (-)

Ion 125.90 (125.60 to 126.60): VU034016.D (-2993) (-)





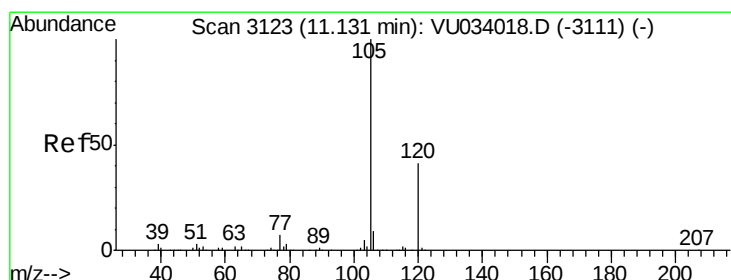
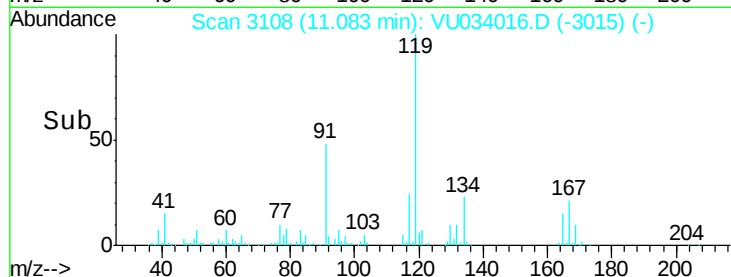
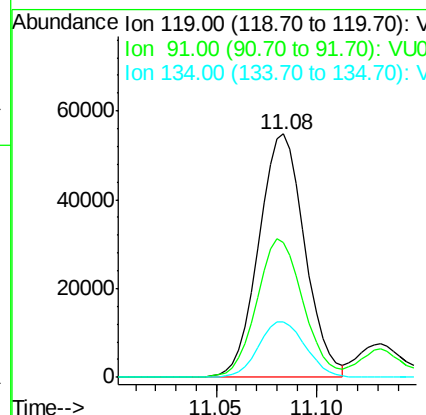
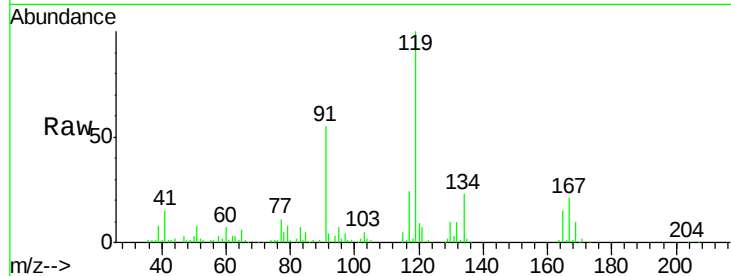
#83
tert-Butylbenzene
Concen: 4.947 ug/l
RT: 11.08 min Scan# 3108
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.5	27.9	83.6
134	23.4	11.4	34.2

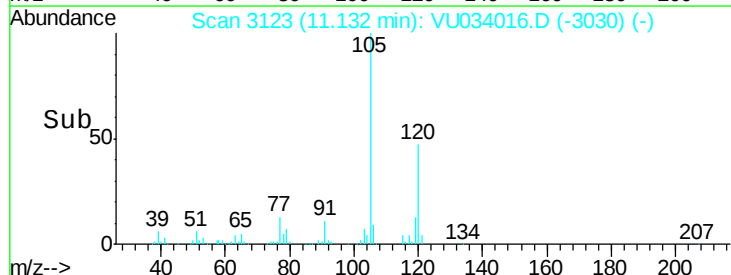
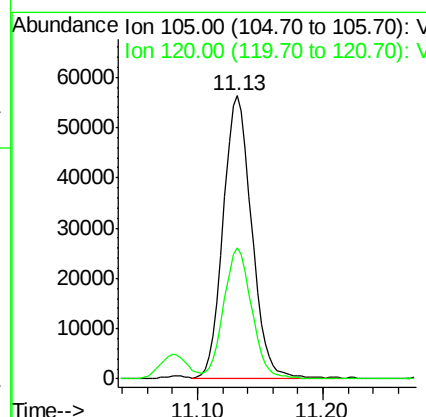
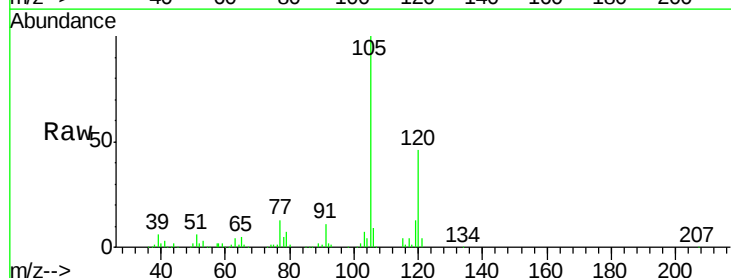
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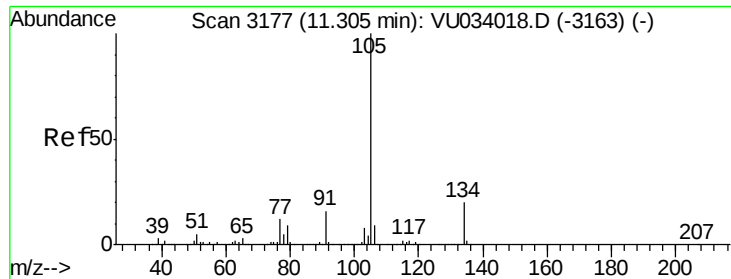
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 4.929 ug/l
RT: 11.13 min Scan# 3123
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.6	67.8





#85

sec-Butylbenzene

Concen: 5.187 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 109055

Ion Ratio Lower Upper

105 100

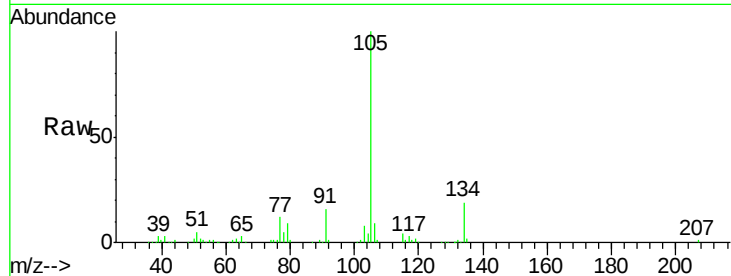
134 18.8 10.0 30.0

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.31

80000

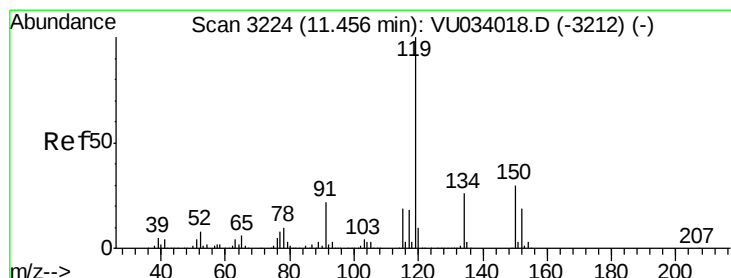
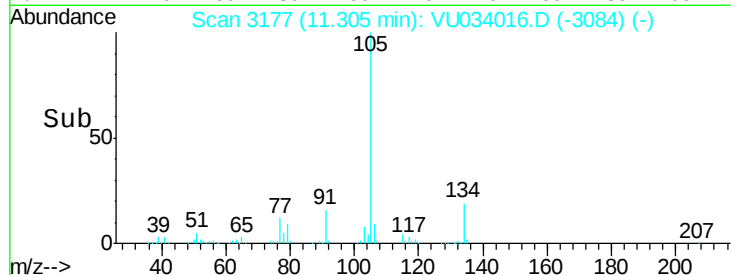
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 4.830 ug/l

RT: 11.46 min Scan# 3225

Delta R.T. 0.00 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

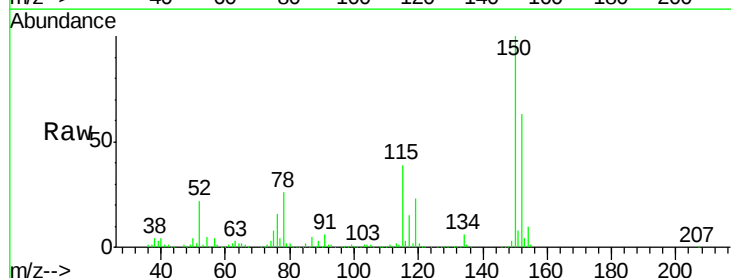
Tgt Ion:119 Resp: 94531

Ion Ratio Lower Upper

119 100

134 26.7 13.1 39.1

91 24.7 11.2 33.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.46

80000

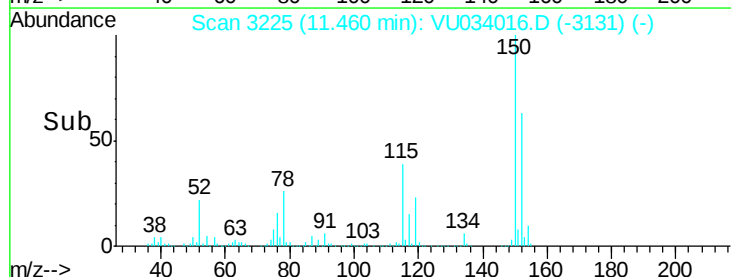
60000

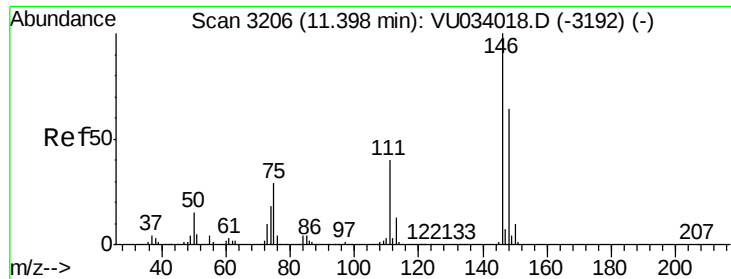
40000

20000

0

Time-->





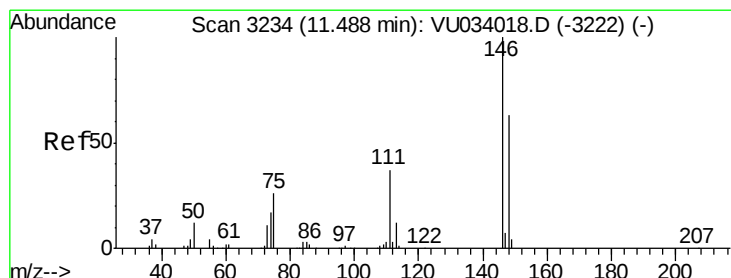
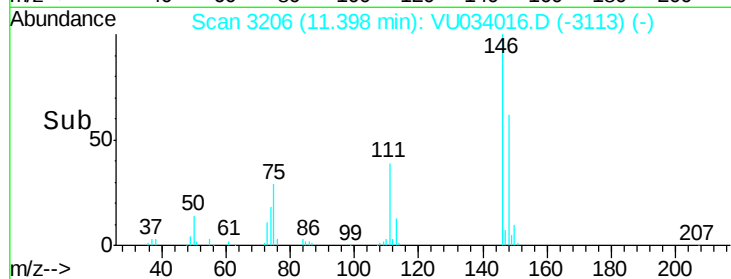
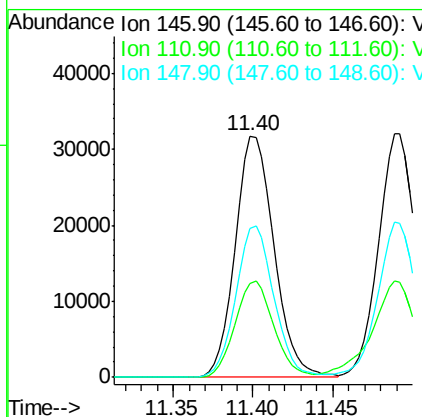
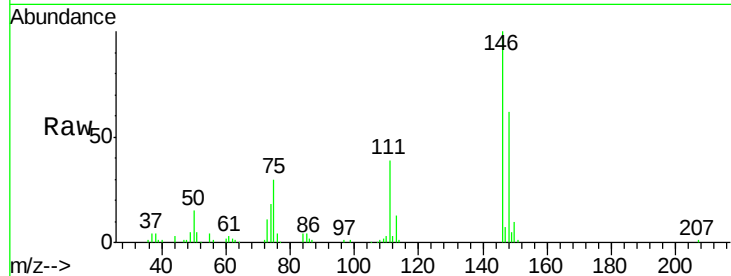
#87
 1,3-Dichlorobenzene
 Concen: 5.000 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.9	59.6
148	61.1	31.9	95.5

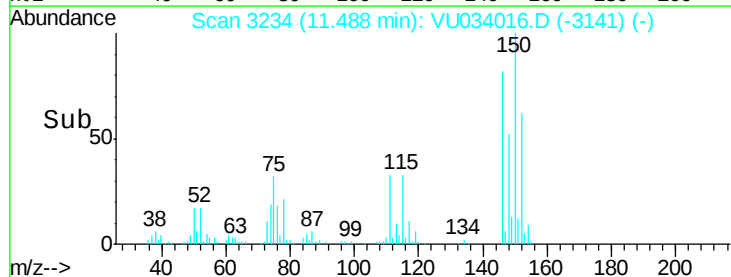
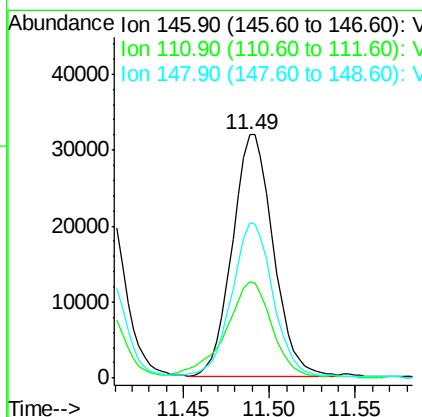
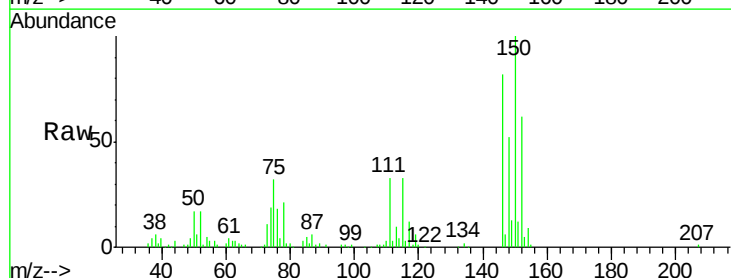
Manual Integrations
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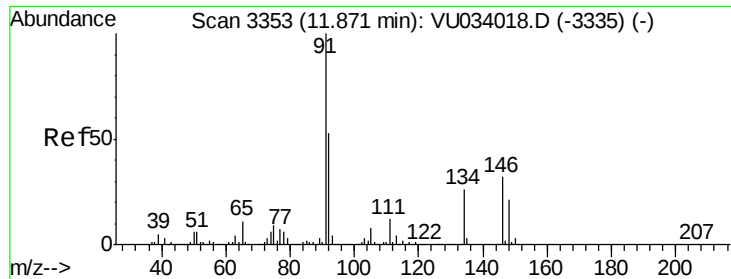
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#88
 1,4-Dichlorobenzene
 Concen: 4.962 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.6	19.2	57.6
148	65.3	31.9	95.9





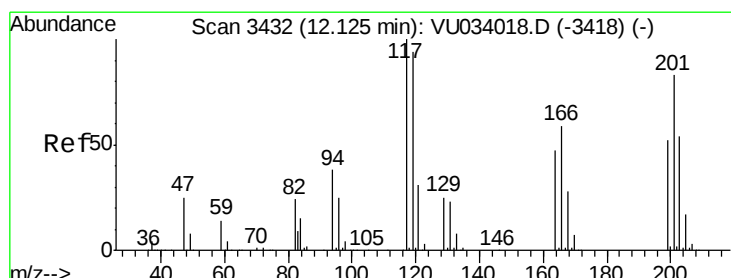
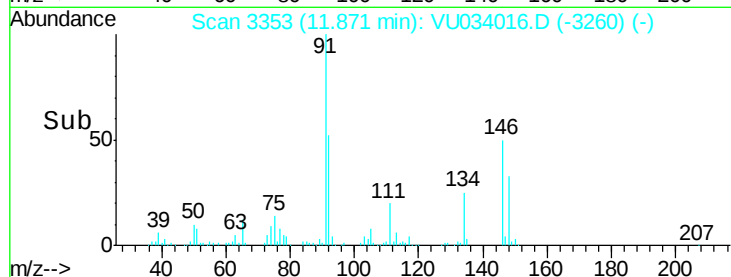
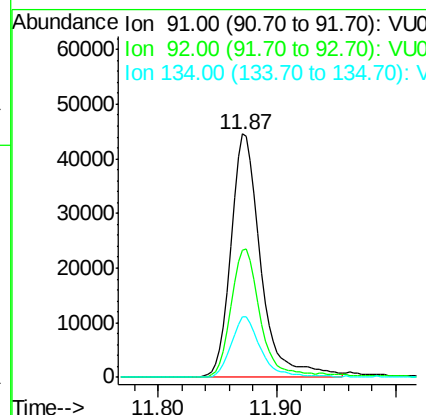
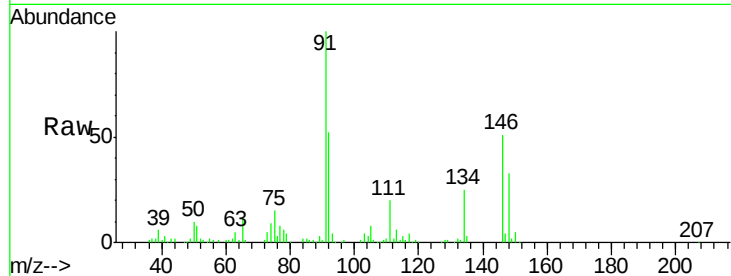
#89
n-Butylbenzene
Concen: 4.704 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.3	78.9
134	24.8	12.9	38.7

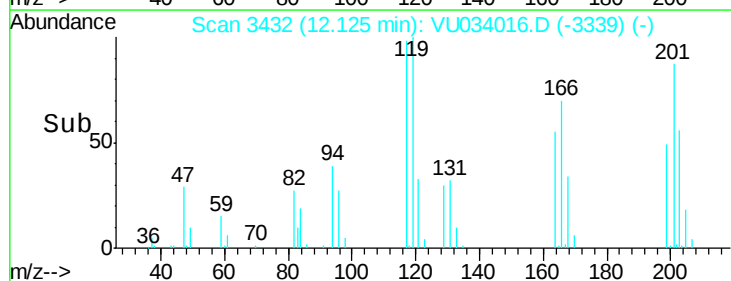
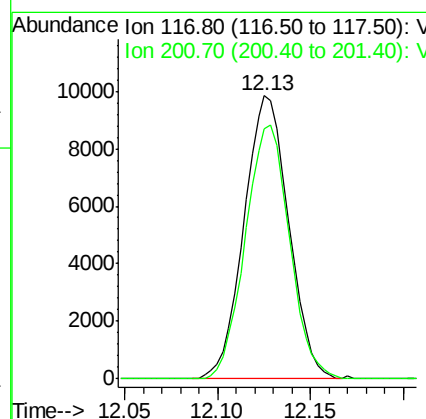
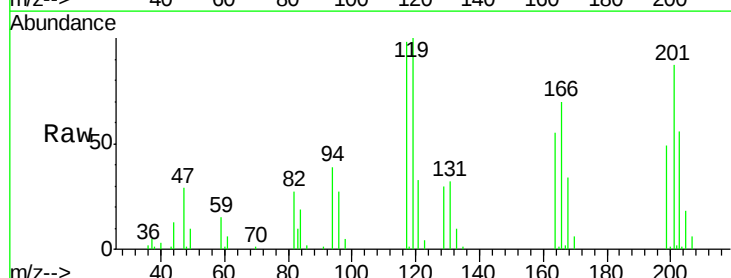
Manual Integrations
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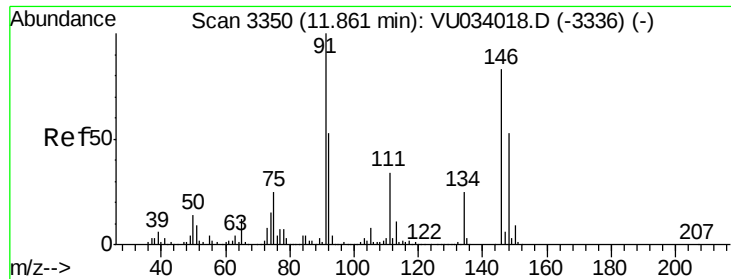
MMDadoda
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#90
Hexachloroethane
Concen: 5.068 ug/l
RT: 12.13 min Scan# 3432
Delta R.T. 0.00 min
Lab File: VU034016.D
Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.8	42.5	127.6





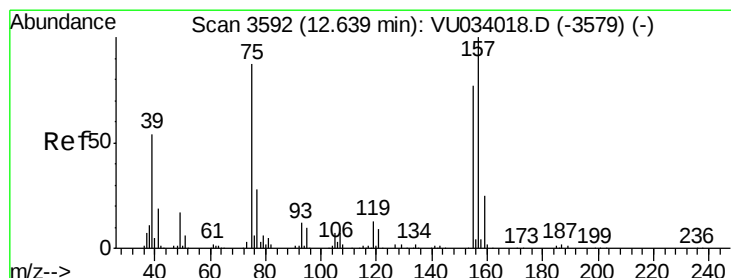
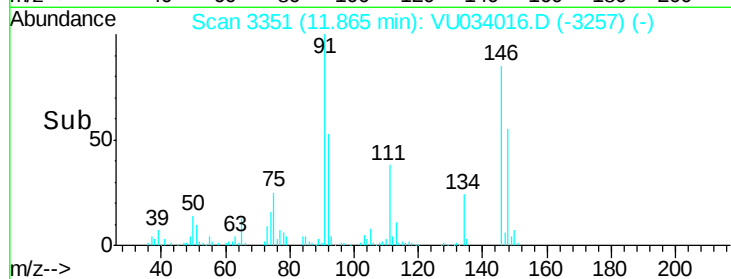
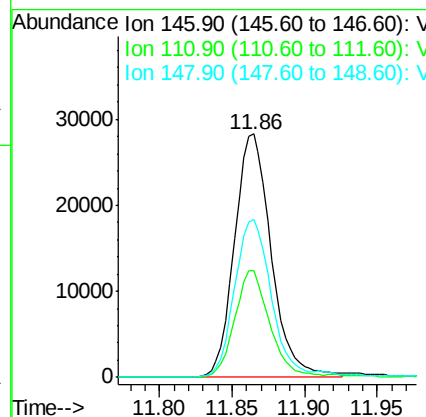
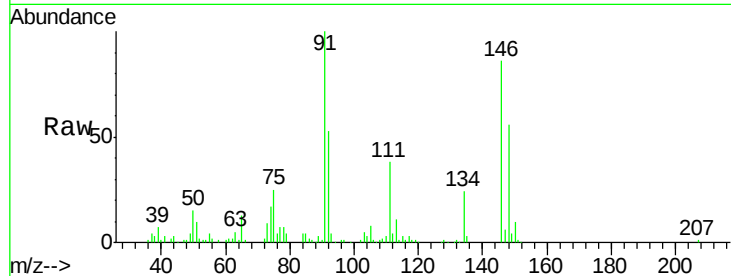
#91
 1,2-Dichlorobenzene
 Concen: 4.837 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.4	61.2
148	65.4	32.3	96.8

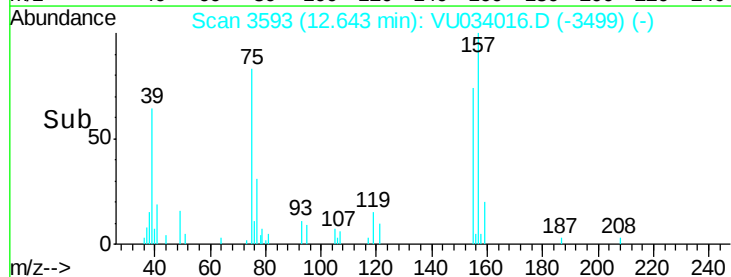
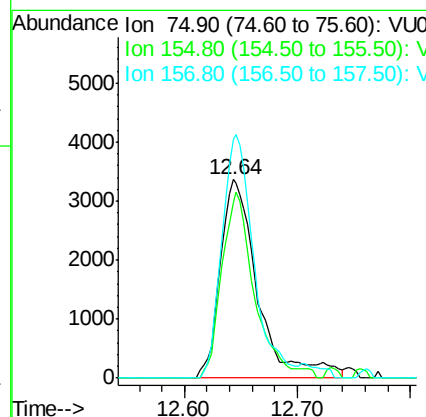
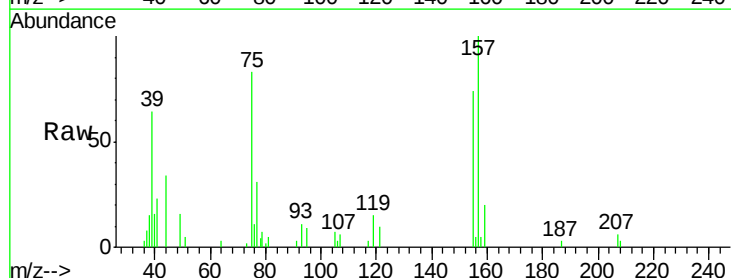
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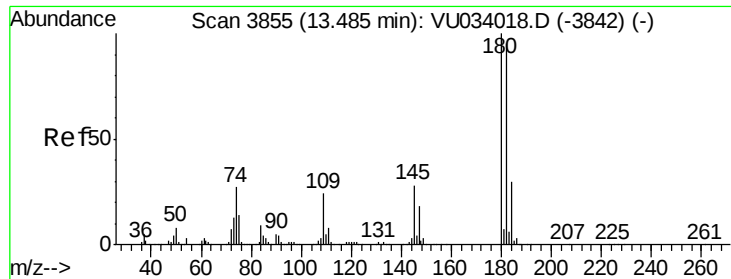
MMDadoda
 8/29/2019 8:27:30 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.087 ug/l m
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.0	43.5	130.7
157	104.1	56.9	170.6





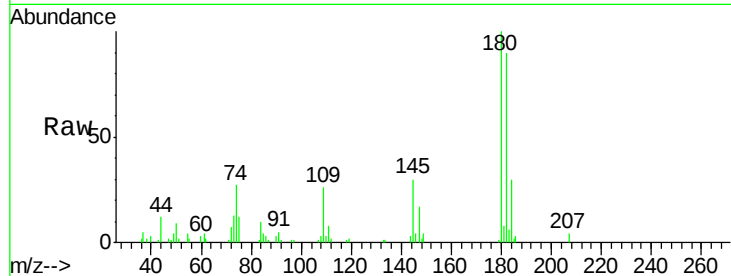
#93
 1,2,4-Trichlorobenzene
 Concen: 4.181 ug/l m
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

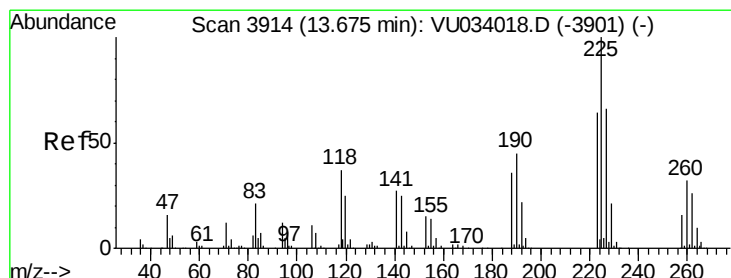
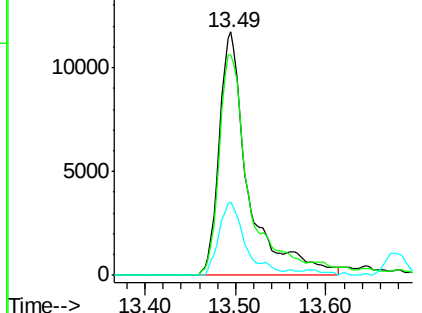
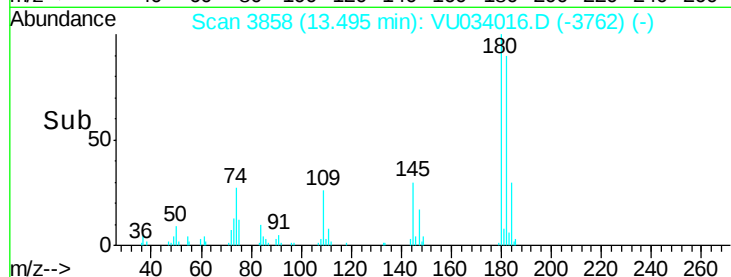
Tot Ion	Ratio	Resp	Lower	Upper
180	100	26396		
182	90.8		47.4	142.2
145	25.0		14.1	42.3

Manual Integrations
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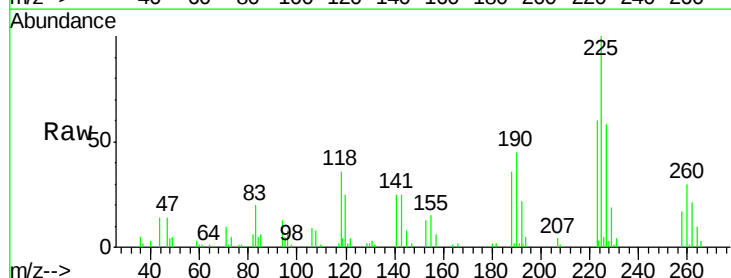


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

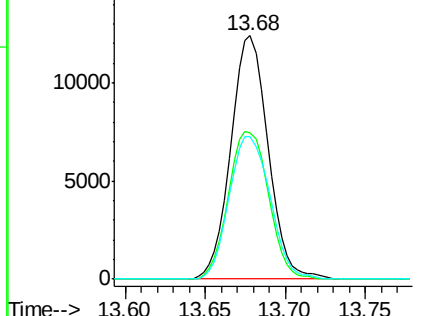
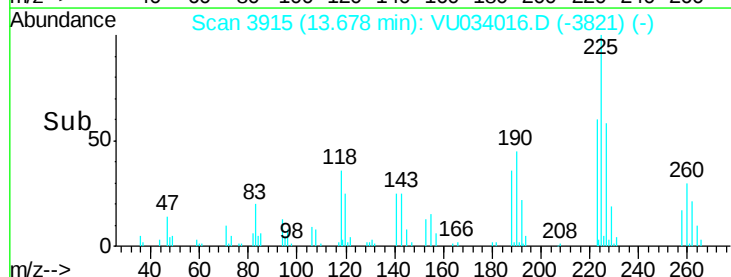


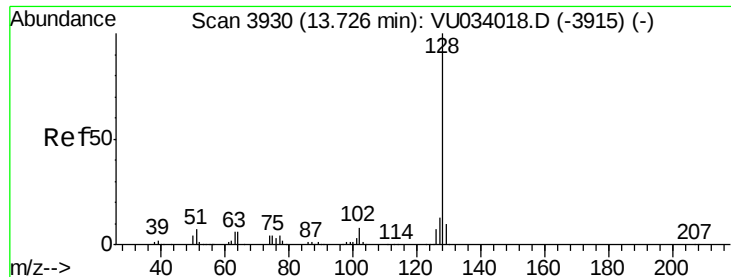
#94
 Hexachlorobutadiene
 Concen: 4.710 ug/l
 RT: 13.68 min Scan# 3915
 Delta R.T. 0.00 min
 Lab File: VU034016.D
 Acq: 28 Aug 2019 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	19712		
223	65.2		31.8	95.3
227	64.2		32.6	97.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.643 ug/l

RT: 13.73 min Scan# 3932

Delta R.T. 0.01 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Instrument :

MSVOA_U

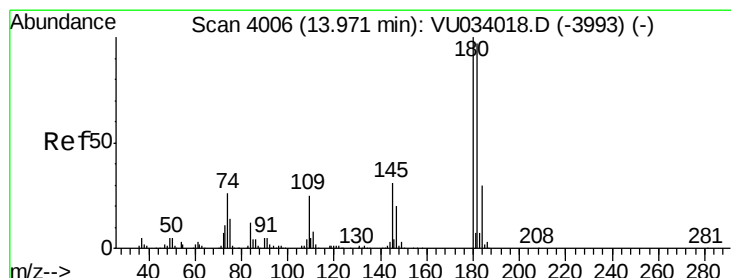
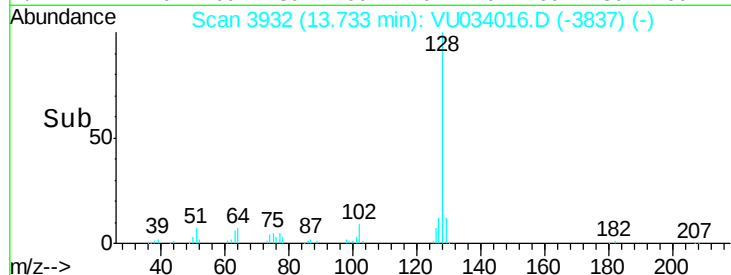
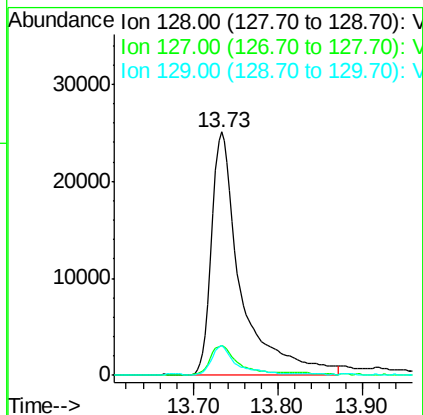
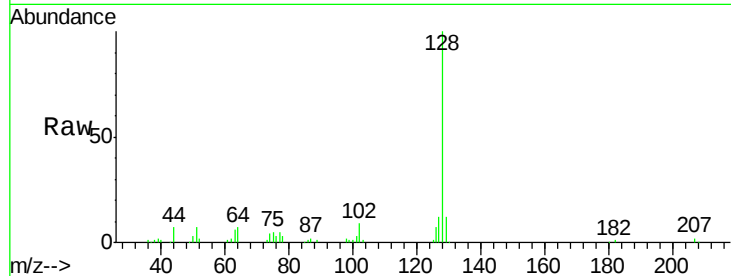
ClientSampleId :

VSTDIC005

Tot Ion:128	Resp:	60983
Ion Ratio	Lower	Upper
128	100	
127	11.6	10.2 15.4
129	10.4	8.4 12.6

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#96

1,2,3-Trichlorobenzene

Concen: 4.355 ug/l m

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU034016.D

Acq: 28 Aug 2019 12:02

Tgt Ion:180	Resp:	28407
Ion Ratio	Lower	Upper
180	100	
182	91.9	48.2 144.6
145	25.5	15.5 46.5

