

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034899.D
 Acq On : 16 Mar 2020 20:46
 Operator : SY/AP
 Sample : L1924-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:16:07 PM

Quant Time: Mar 17 11:29:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	929655	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1951874	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1884439	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1511373	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	80721	0.634	ppbv	92
4) Chloromethane	3.10	50	10238	0.174	ppbv #	78
5) Vinyl Chloride	3.22	62	7031	0.125	ppbv	93
9) Propene	2.98	41	38975	0.786	ppbv #	69
11) Trichlorofluoromethane	3.92	101	34281	0.253	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	8629177	91.036	ppbv	91
13) Ethanol	3.58	45	569049	37.750	ppbv	93
15) Acetone	3.83	43	1206052	10.009	ppbv	100
18) 1,1-Dichloroethene	4.26	96	972659	23.171	ppbv	97
19) Isopropyl Alcohol	3.95	45	291919	3.836	ppbv #	45
20) Methylene Chloride	4.31	84	189941	4.986	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	68663	1.612	ppbv	96
24) 1,1-Dichloroethane	4.99	63	170313m	1.427	ppbv	
26) Hexane	5.68	57	120076	1.299	ppbv #	42
29) Chloroform	5.74	83	106521	0.755	ppbv	93
31) cis-1,2-Dichloroethene	5.54	61	6003963	63.512	ppbv #	87
32) 1,1,1-Trichloroethane	6.51	97	711745	5.179	ppbv	97
34) 2-Butanone	5.24	43	54743	0.422	ppbv	98
35) Carbon Tetrachloride	7.02	117	7389m	0.061	ppbv	
36) Benzene	6.89	78	34229	0.197	ppbv	95
38) Trichloroethene	7.85	130	8462529	128.073	ppbv	95
52) Tetrachloroethene	11.24	164	448152	6.511	ppbv	97
53) Toluene	9.82	91	67650	0.337	ppbv	99

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

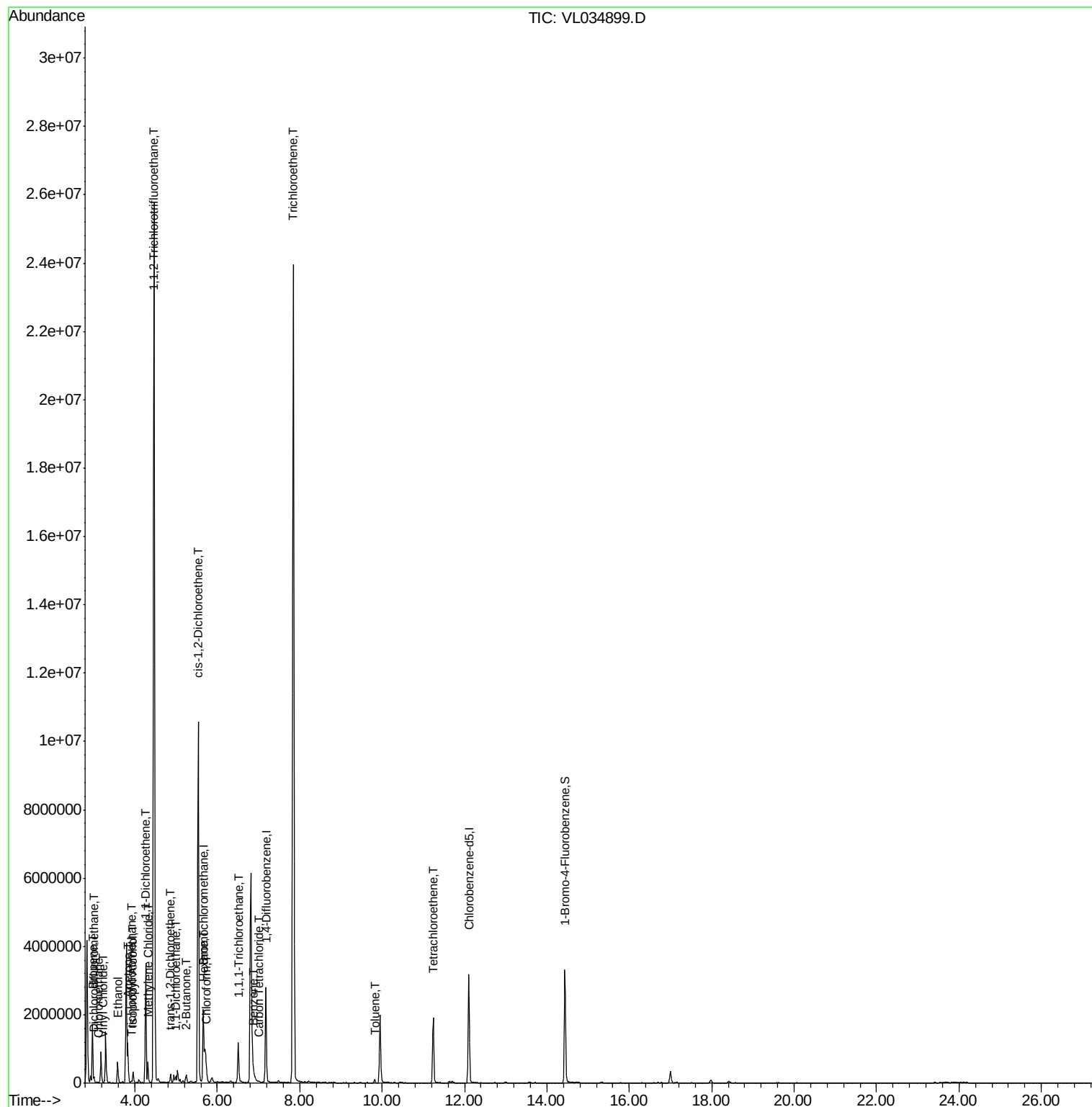
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
Data File : VL034899.D
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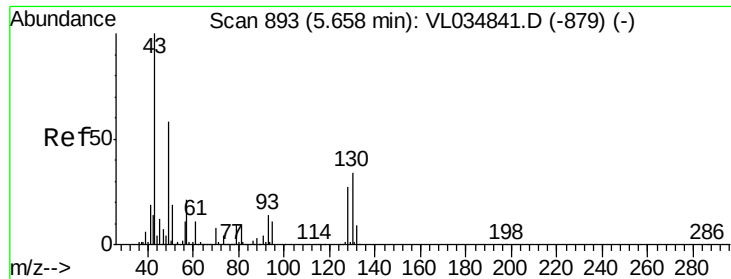
Instrument :
MSVOA_L
ClientSampleId :
SV-01

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Quant Time: Mar 17 11:29:42 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

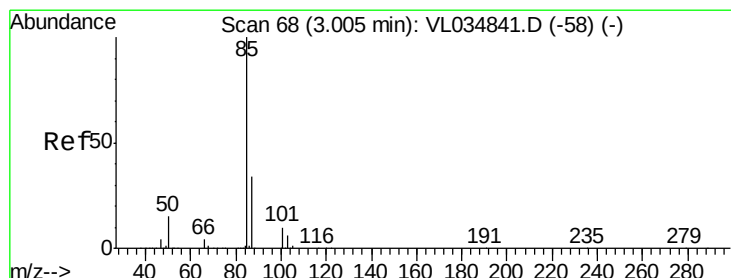
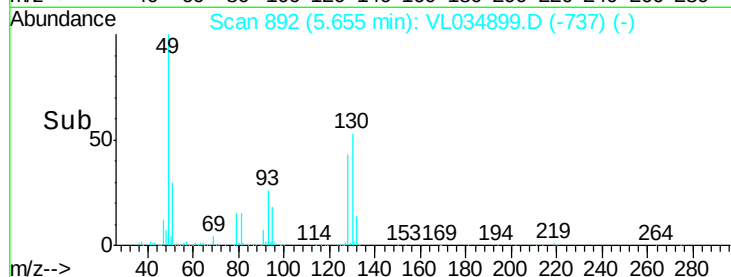
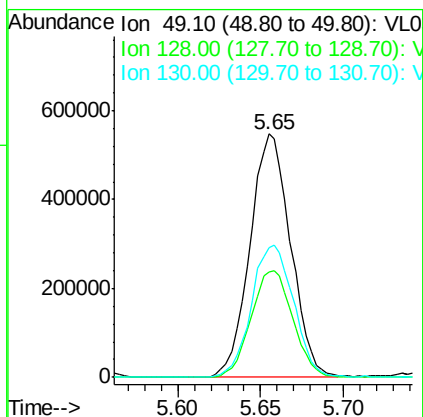
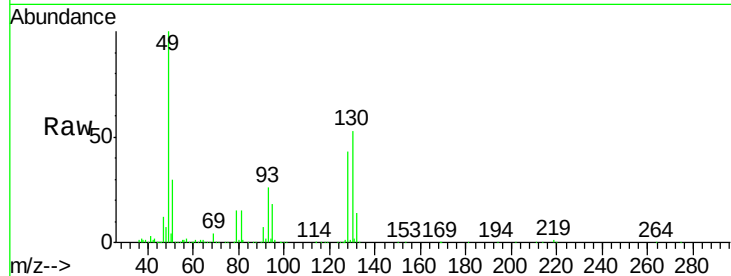
ClientSampled :

SV-01

Tot Ion:	49	Resp:	929655
Ion	Ratio	Lower	Upper
49	100		
128	45.1	23.4	70.3
130	56.7	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.634 ppbv

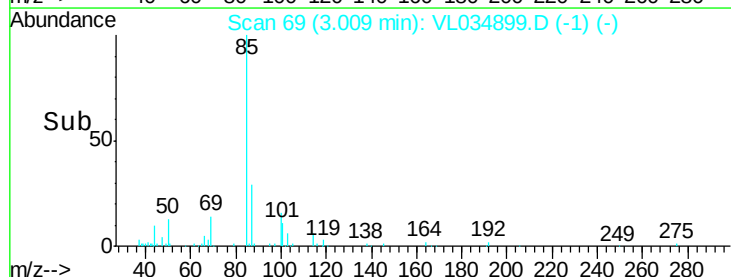
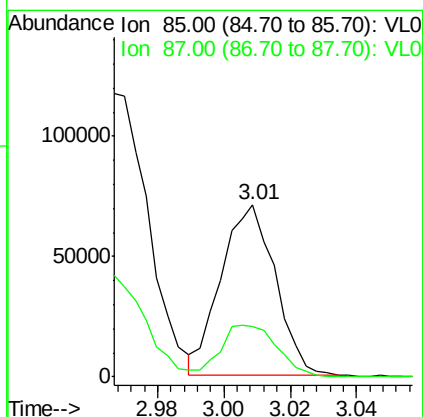
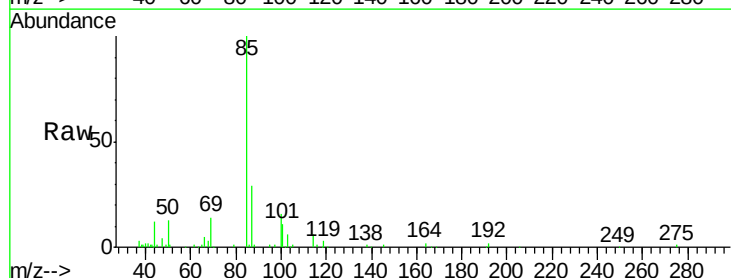
RT: 3.01 min Scan# 69

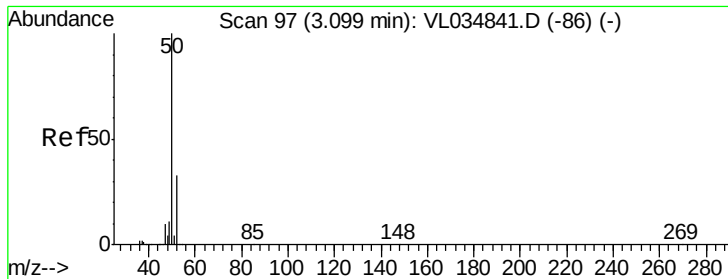
Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion:	85	Resp:	80721
Ion	Ratio	Lower	Upper
85	100		
87	28.8	26.9	40.3





#4

Chloromethane

Concen: 0.174 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 50 Resp: 10238

Ion Ratio Lower Upper

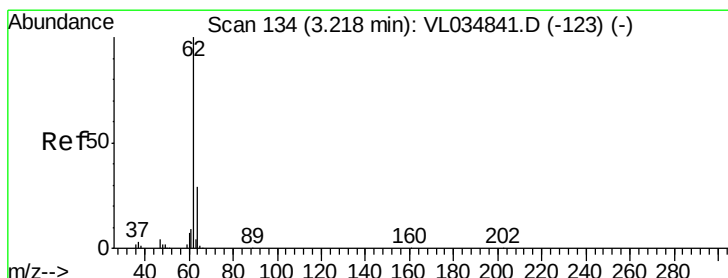
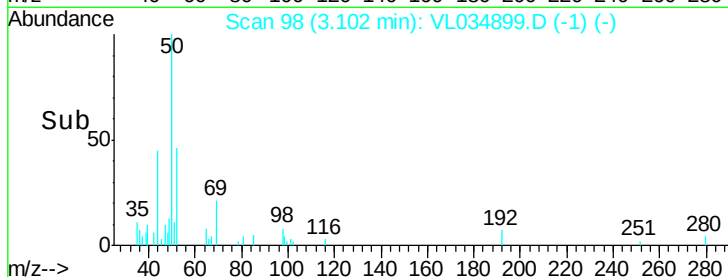
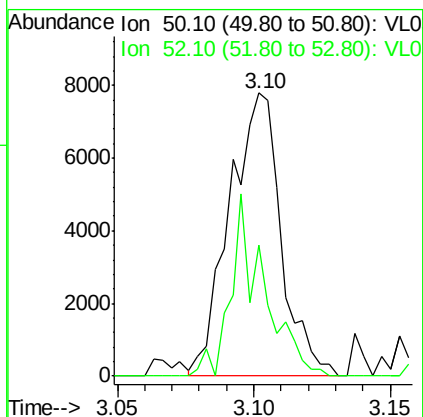
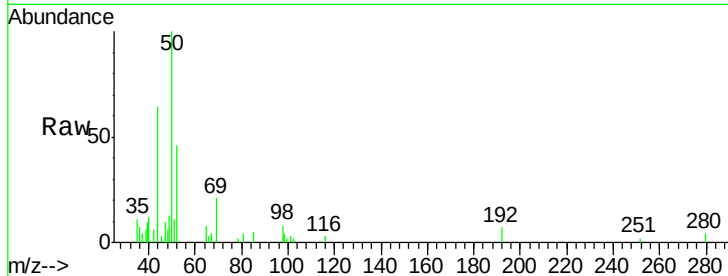
50 100

52 46.2 26.8 40.2#

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#5

Vinyl Chloride

Concen: 0.125 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034899.D

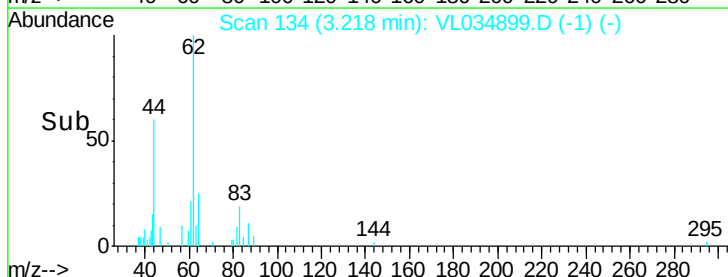
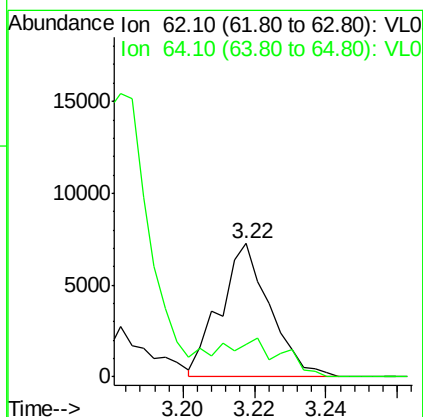
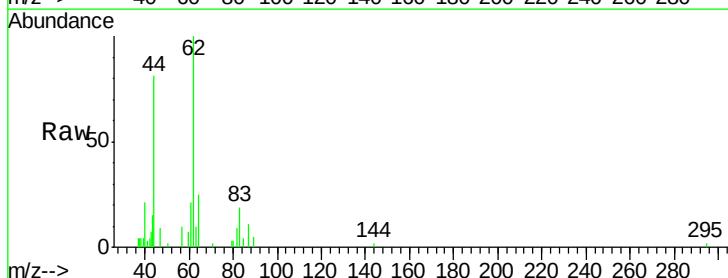
Acq: 16 Mar 2020 20:46

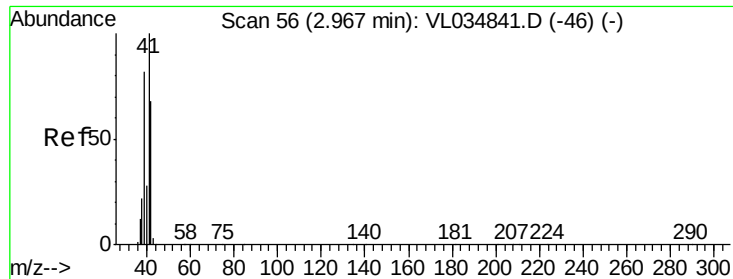
Tgt Ion: 62 Resp: 7031

Ion Ratio Lower Upper

62 100

64 24.8 23.0 34.4





#9

Propene

Concen: 0.786 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 41 Resp: 38975

Ion Ratio Lower Upper

41 100

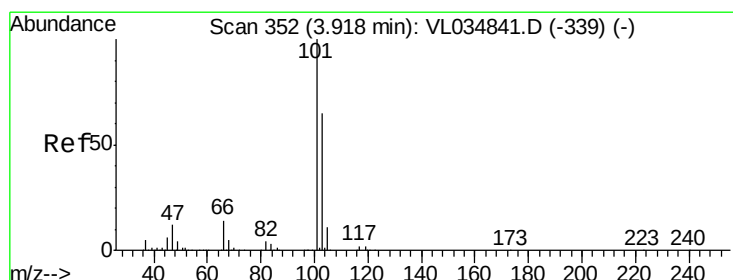
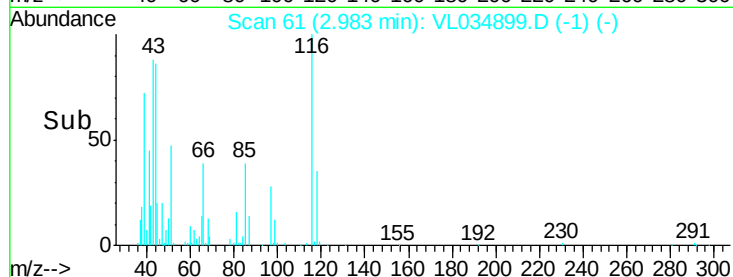
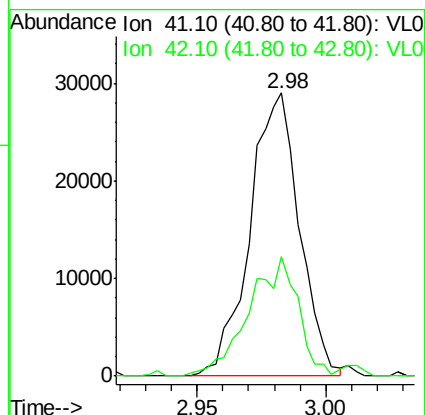
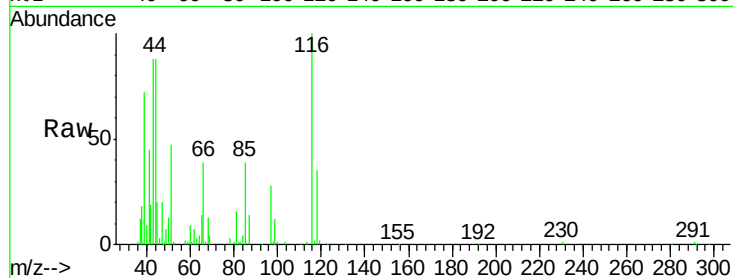
42 44.0 55.2 82.8#

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#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL034899.D

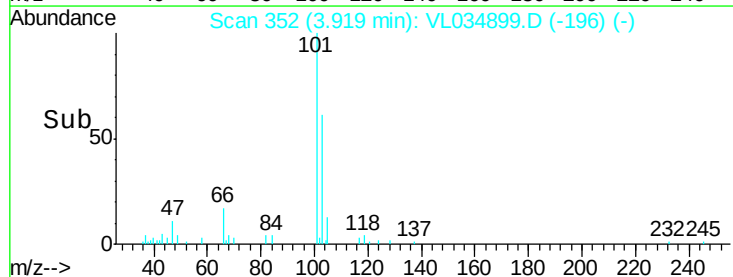
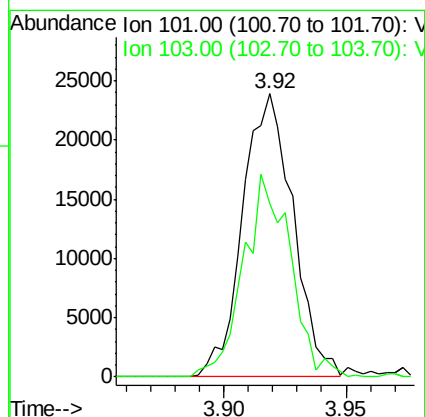
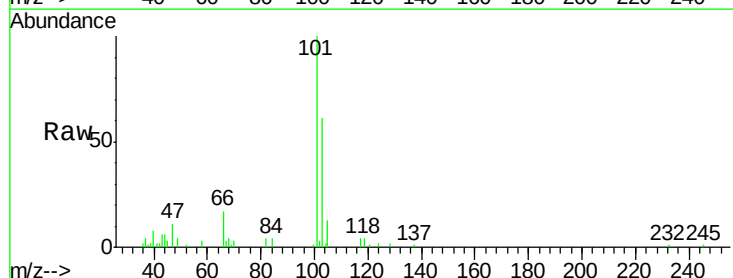
Acq: 16 Mar 2020 20:46

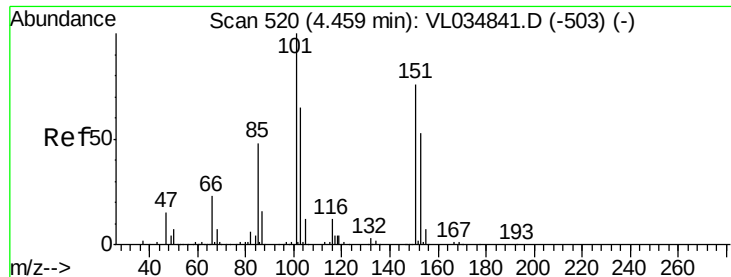
Tgt Ion: 101 Resp: 34281

Ion Ratio Lower Upper

101 100

103 61.1 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 91.036 ppbv

RT: 4.46 min Scan# 521

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion:101 Resp: 8629177

Ion Ratio Lower Upper

101 100

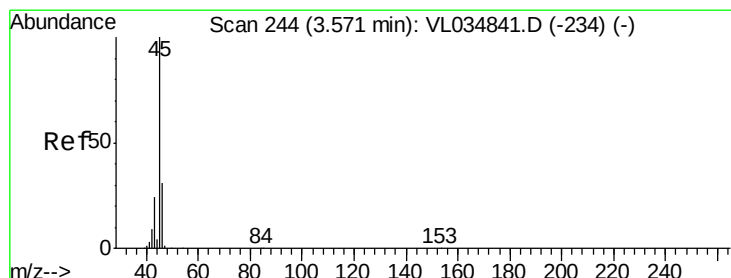
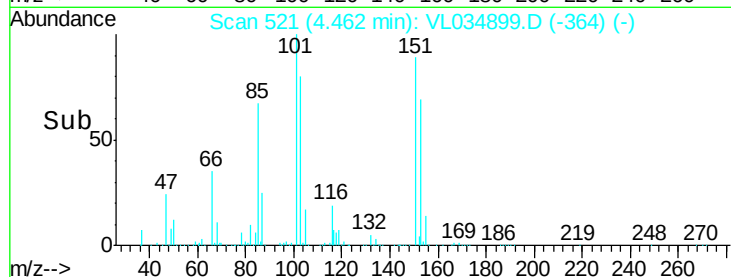
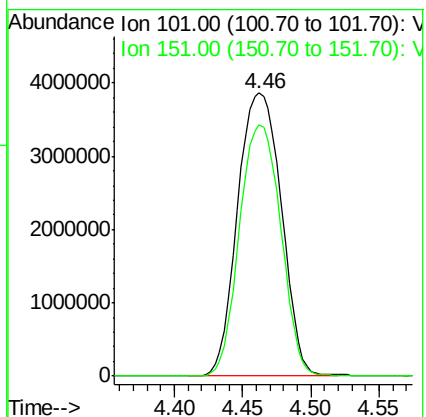
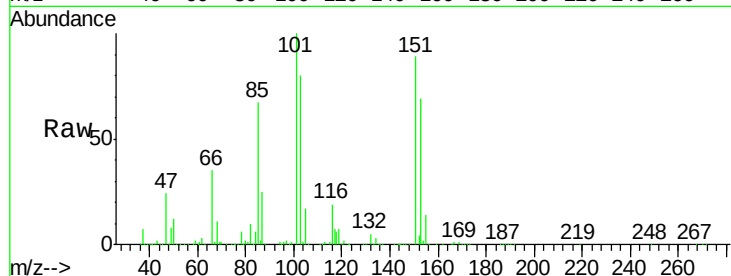
151 84.0 60.8 91.2

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#13

Ethanol

Concen: 37.750 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034899.D

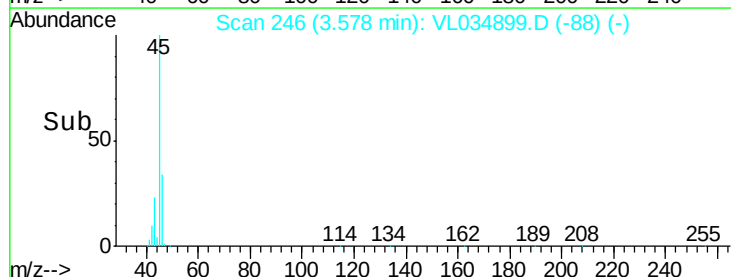
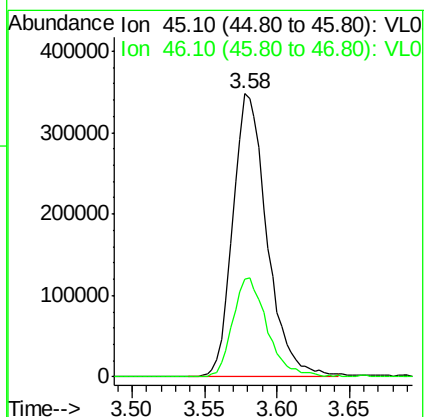
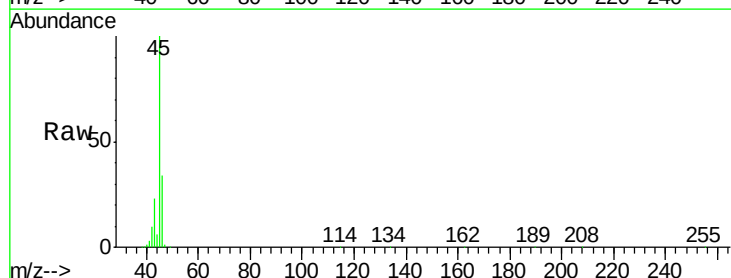
Acq: 16 Mar 2020 20:46

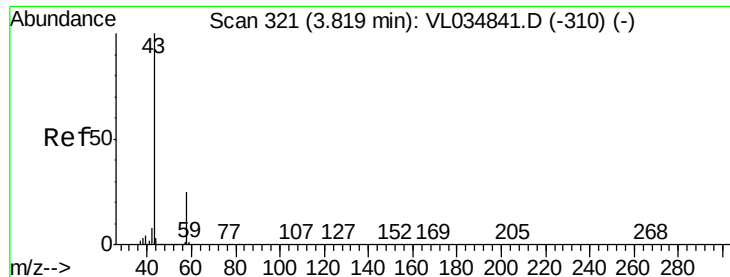
Tgt Ion: 45 Resp: 569049

Ion Ratio Lower Upper

45 100

46 35.4 16.0 64.0





#15

Acetone

Concen: 10.009 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 43 Resp: 1206052

Ion Ratio Lower Upper

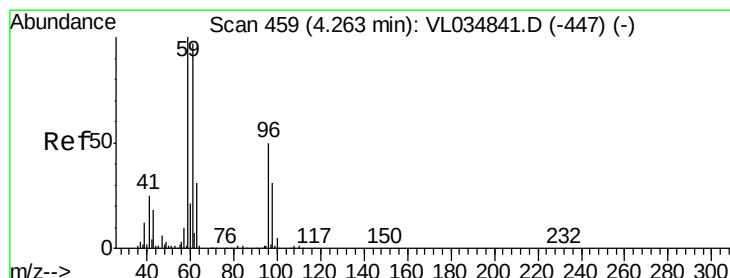
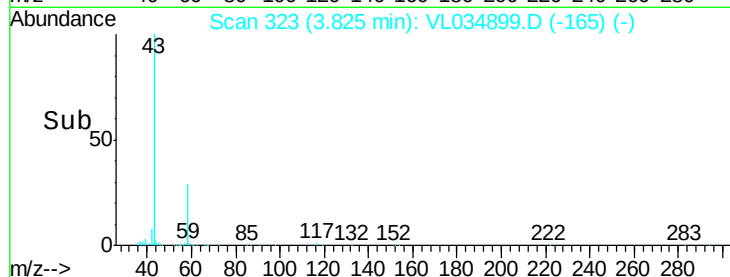
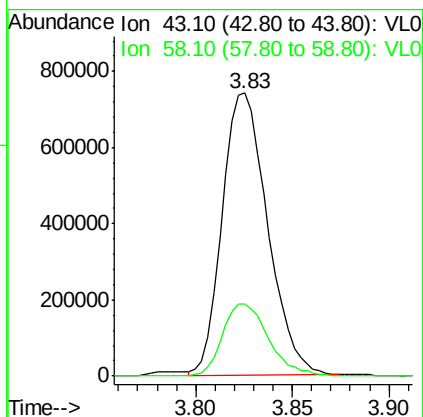
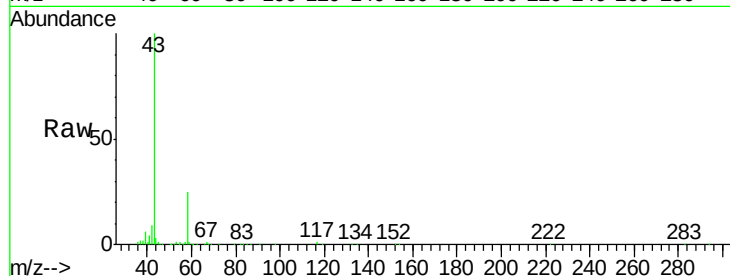
43 100

58 26.4 21.0 31.6

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#18

1,1-Dichloroethene

Concen: 23.171 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

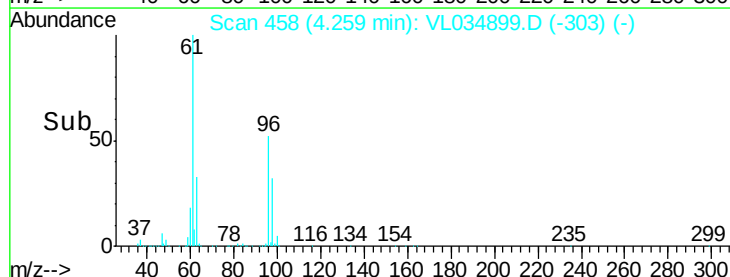
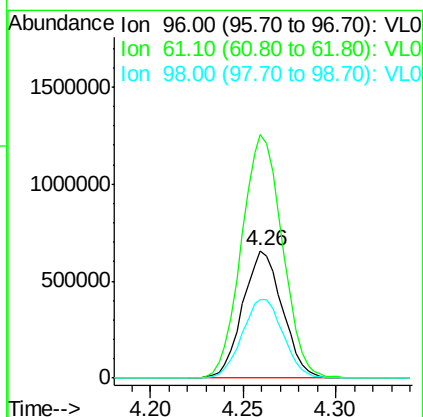
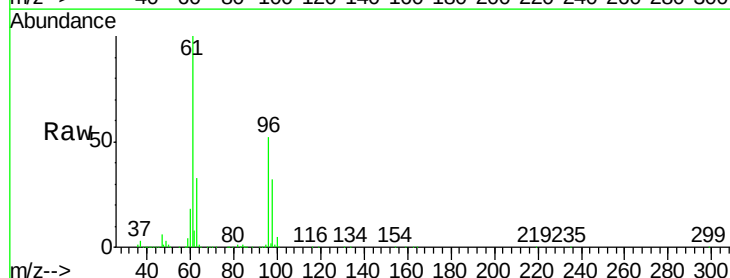
Tgt Ion: 96 Resp: 972659

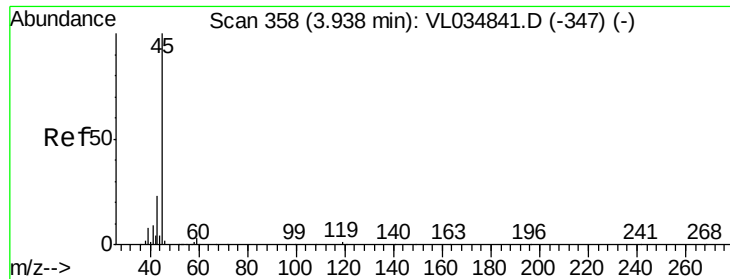
Ion Ratio Lower Upper

96 100

61 191.4 157.3 235.9

98 61.4 50.2 75.4





#19

Isopropyl Alcohol

Concen: 3.836 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion: 45 Resp: 291919

Ion Ratio Lower Upper

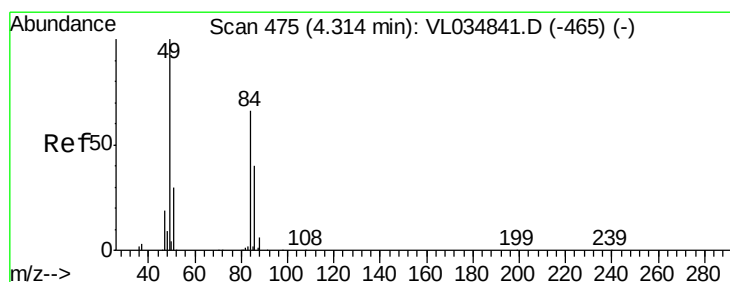
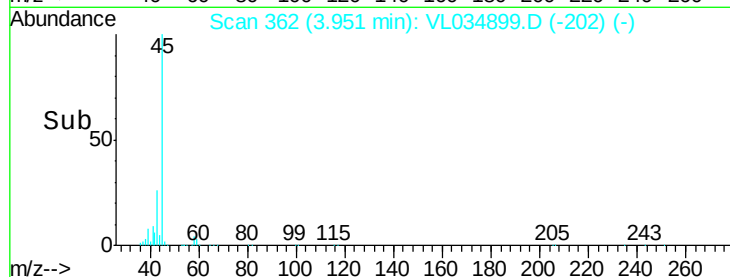
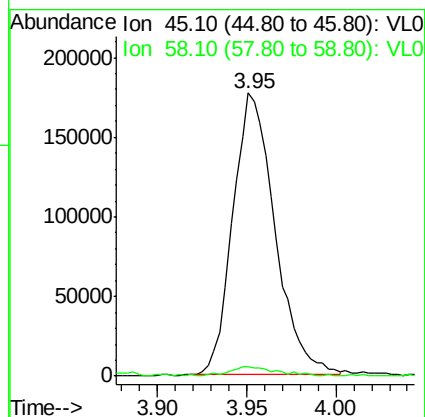
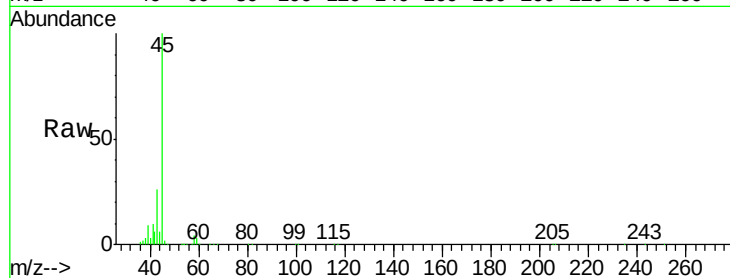
45 100

58 4.6 30.5 45.7#

Manual Integrations
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#20

Methylene Chloride

Concen: 4.986 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion: 84 Resp: 189941

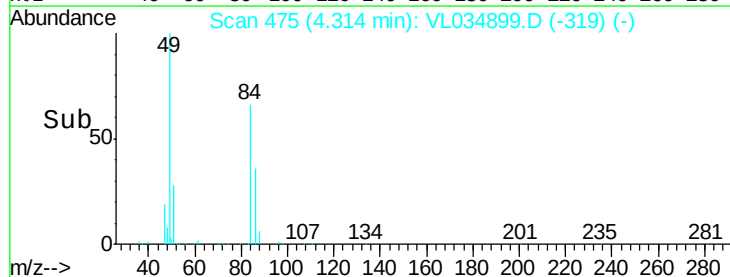
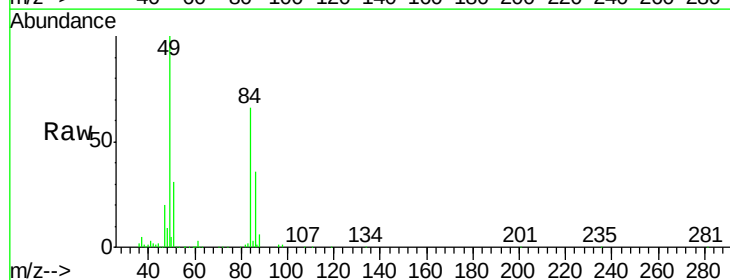
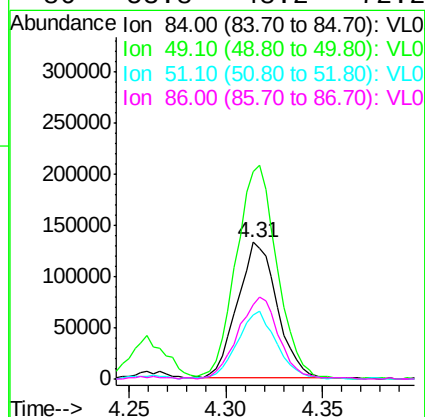
Ion Ratio Lower Upper

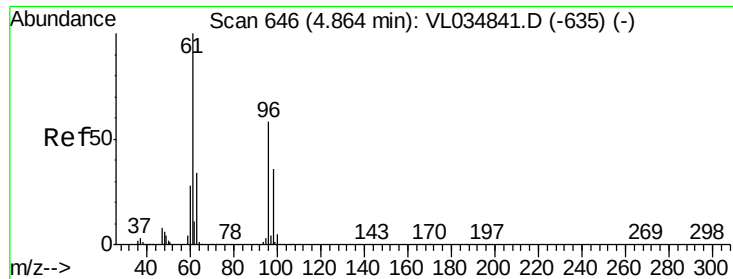
84 100

49 151.7 121.5 182.3

51 46.3 36.6 55.0

86 53.8 48.2 72.2





#22

trans-1,2-Dichloroethene

Concen: 1.612 ppbv

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

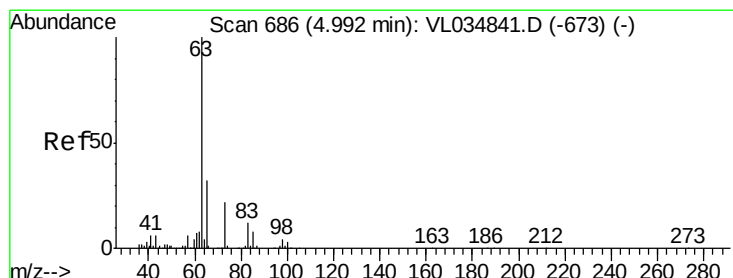
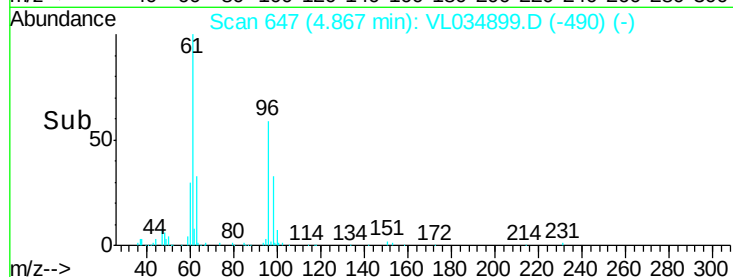
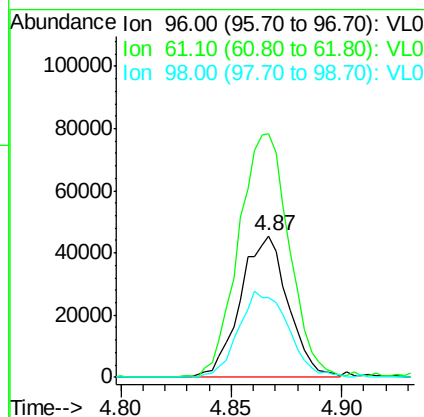
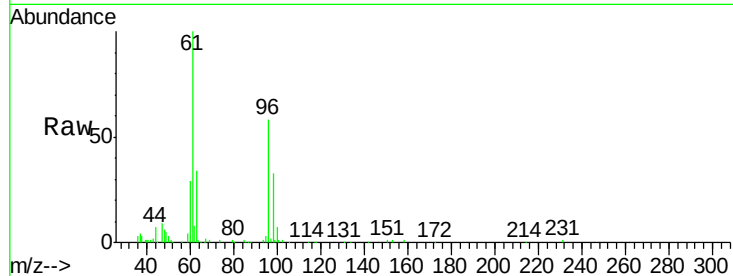
ClientSampled :

SV-01

Tot Ion:	96	Resp:	68663
Ion Ratio	Lower	Upper	
96	100		
61	170.9	139.0	208.6
98	56.2	50.3	75.5

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.427 ppbv m

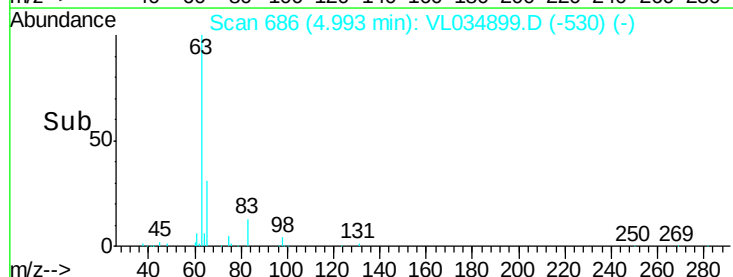
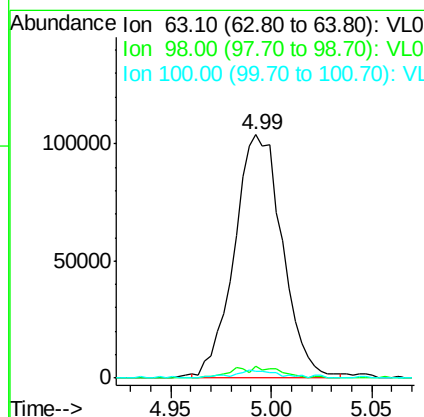
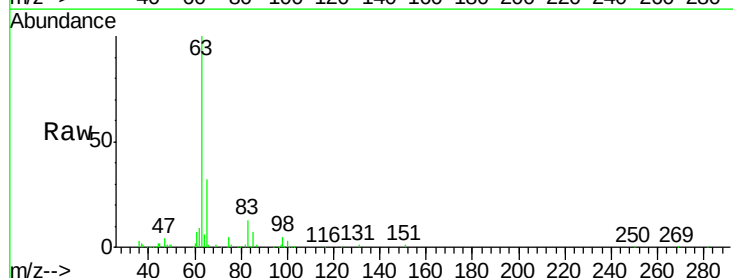
RT: 4.99 min Scan# 686

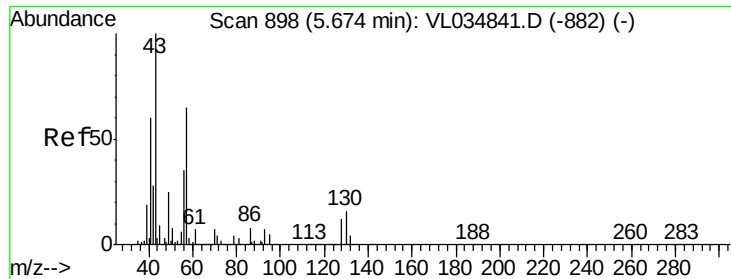
Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion:	63	Resp:	170313
Ion Ratio	Lower	Upper	
63	100		
98	5.0	2.0	5.8
100	2.9	1.4	4.0





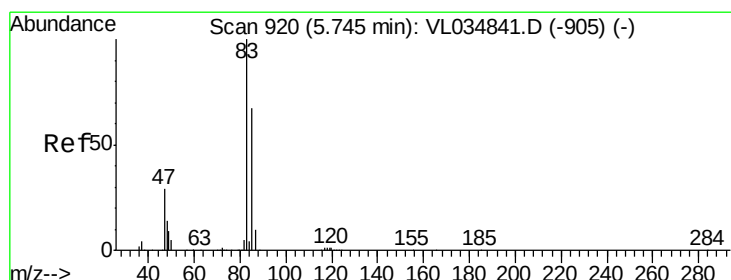
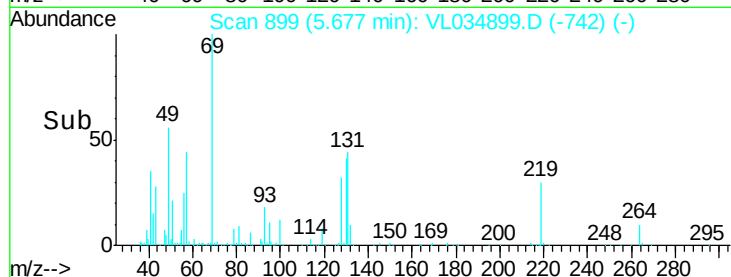
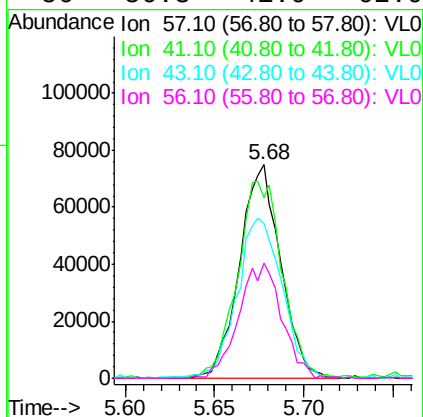
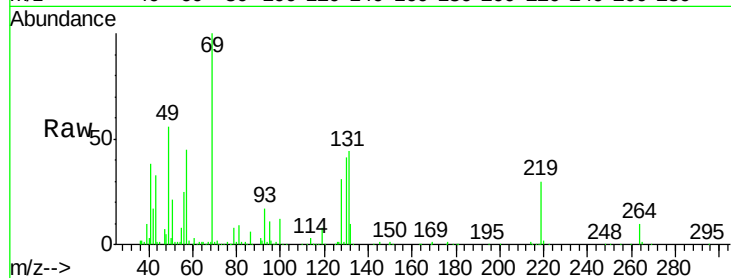
#26
Hexane
Concen: 1.299 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	101.6	72.6	109.0
43	82.8	183.8	275.6#
56	56.3	41.9	62.9

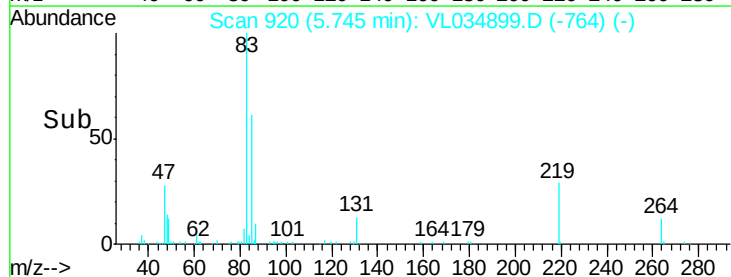
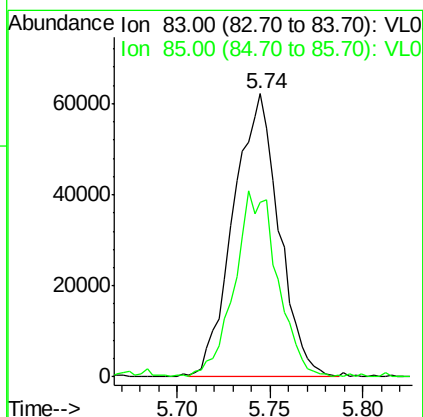
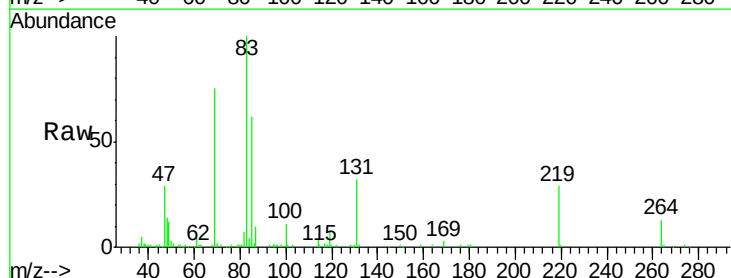
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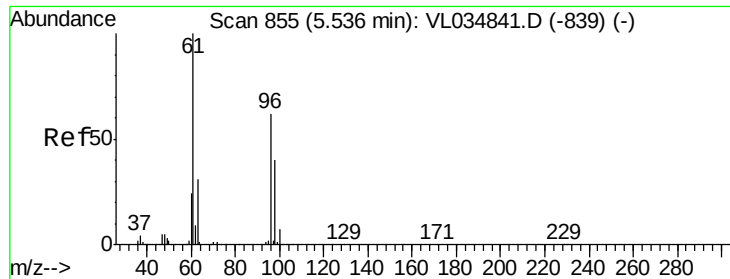
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#29
Chloroform
Concen: 0.755 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	53.8	80.6





#31

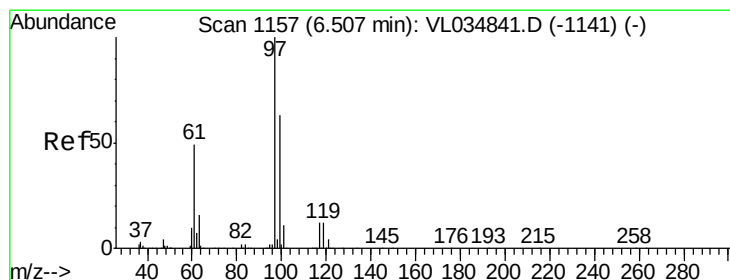
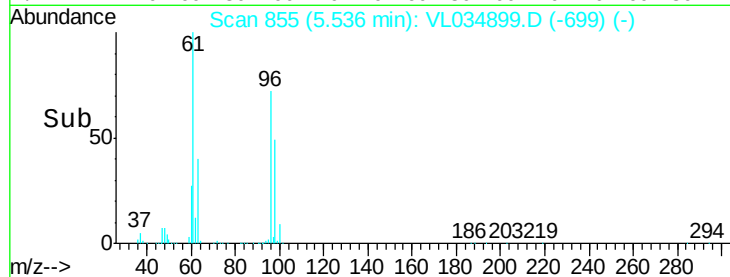
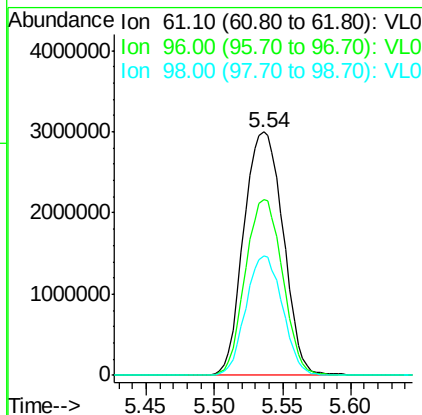
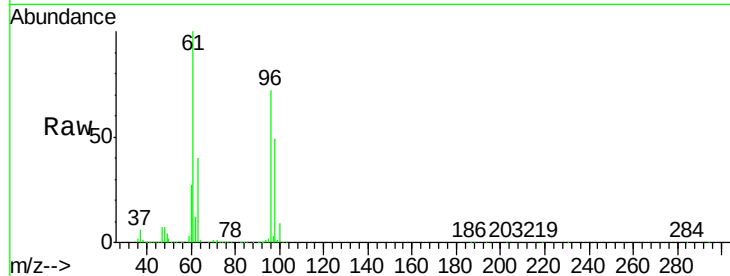
cis-1,2-Dichloroethene
Concen: 63.512 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion	Ratio	Lower	Upper
61	100		
96	72.1	49.8	74.8
98	49.3	32.2	48.4

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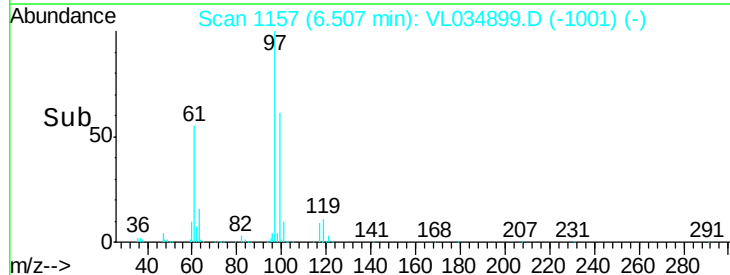
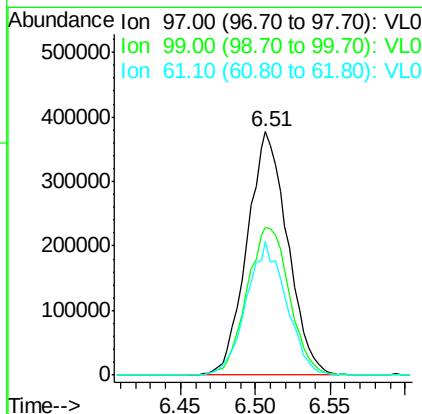
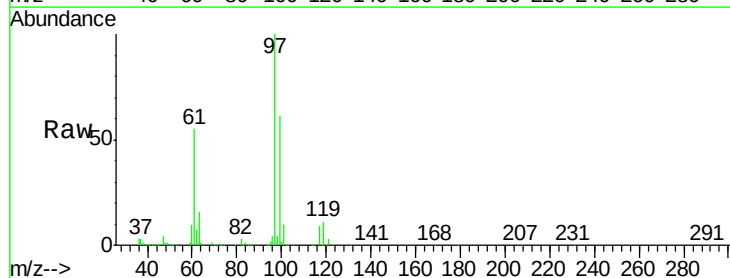
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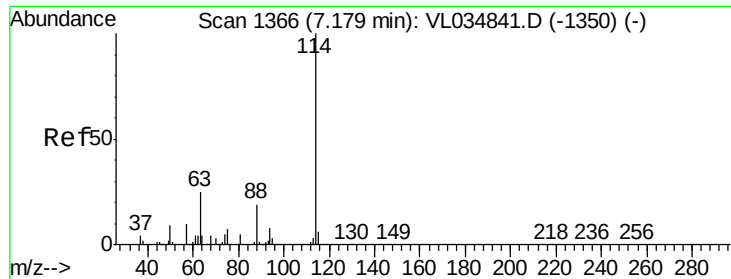


#32

1,1,1-Trichloroethane
Concen: 5.179 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.1	76.7
61	53.8	39.7	59.5





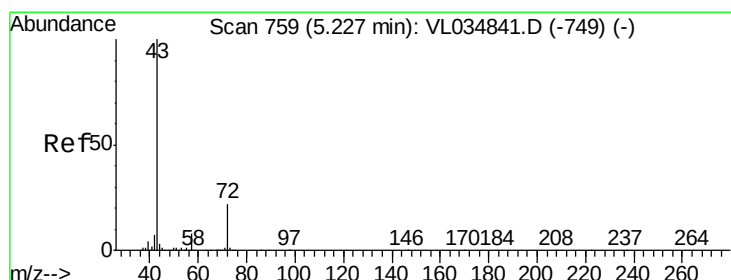
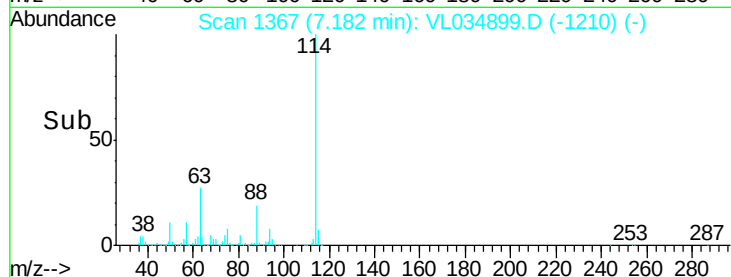
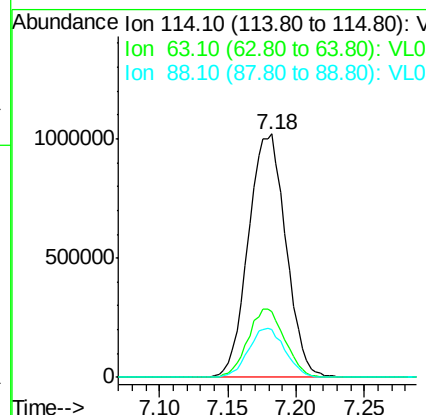
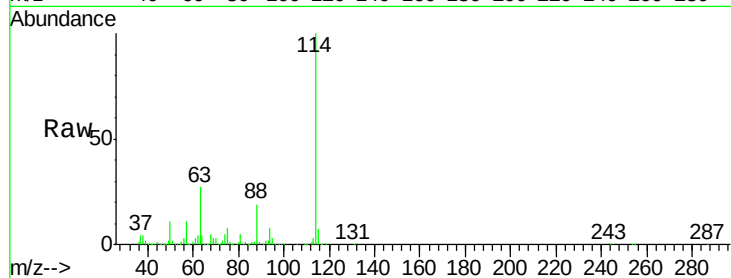
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.8	20.6	31.0
88	19.6	15.0	22.6

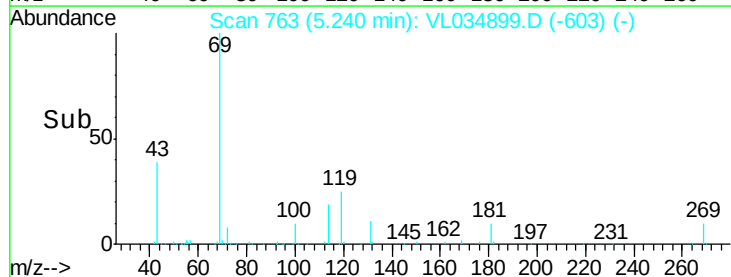
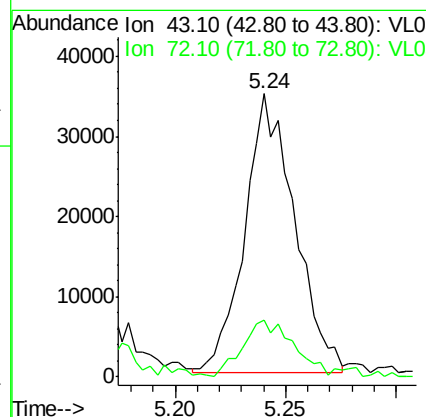
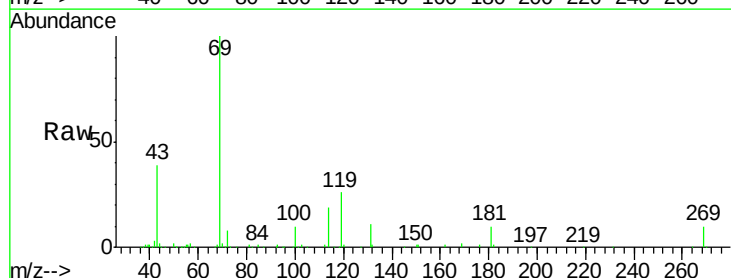
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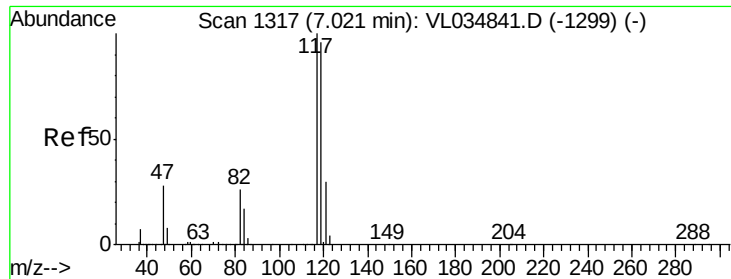
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#34
 2-Butanone
 Concen: 0.422 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.6	26.4





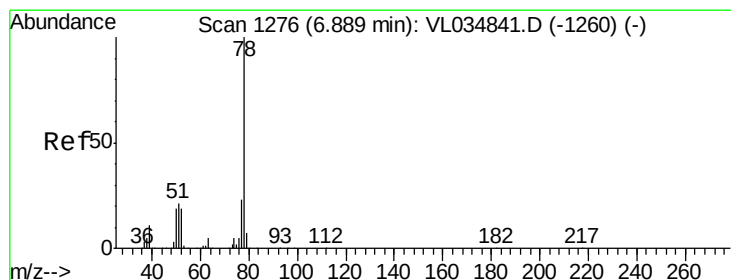
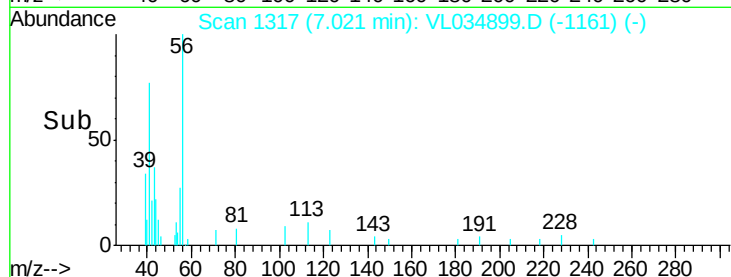
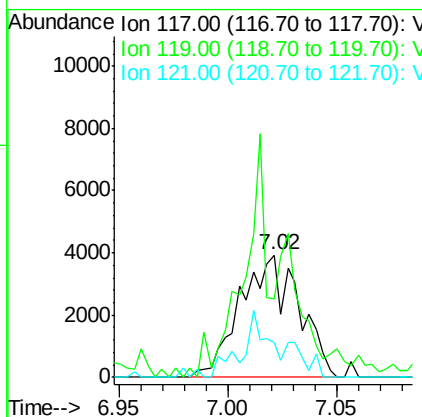
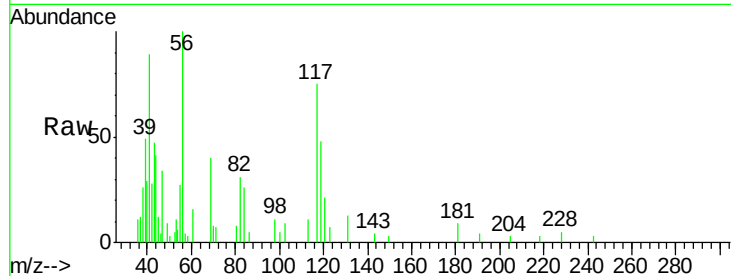
#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion	Ratio	Lower	Upper
117	100		
119	63.8	77.0	115.4#
121	28.4	24.0	36.0

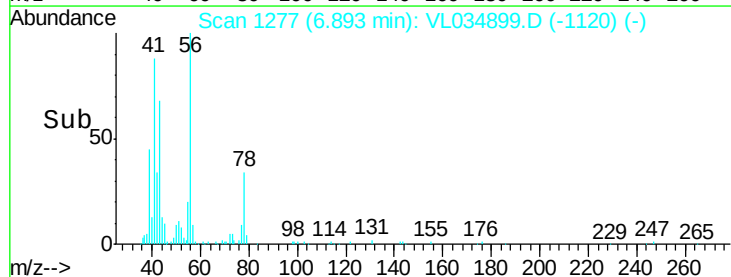
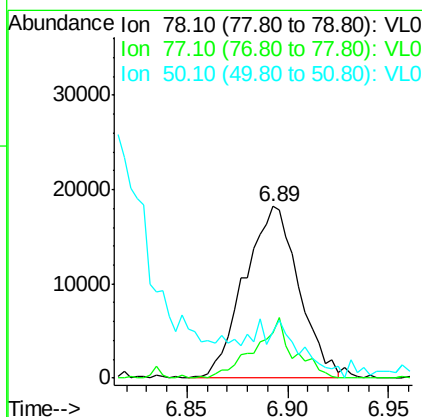
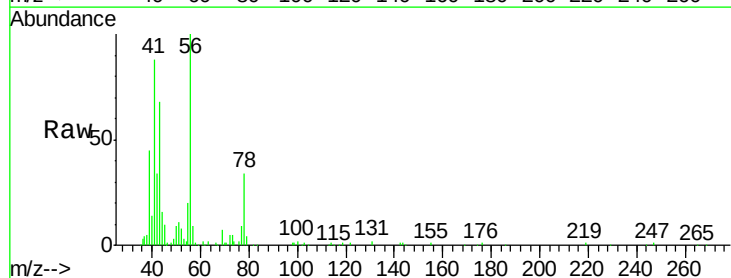
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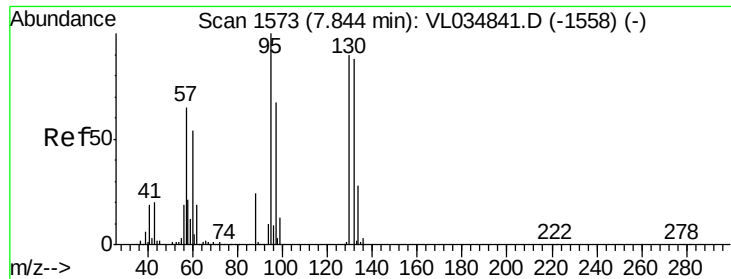
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#36
Benzene
Concen: 0.197 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.2	27.2
50	19.9	15.2	22.8





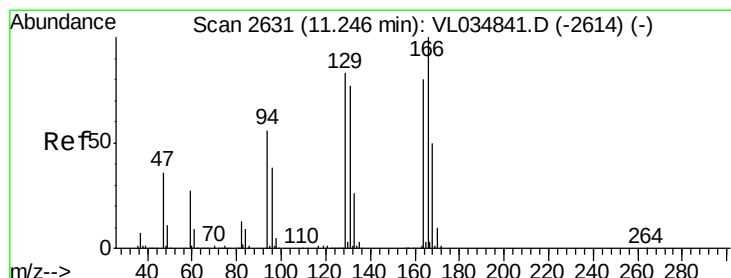
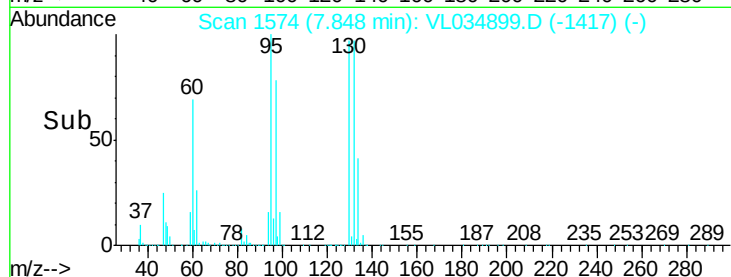
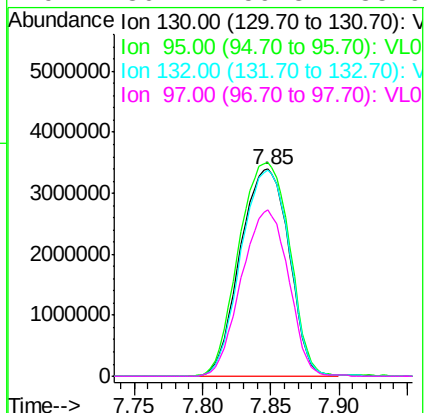
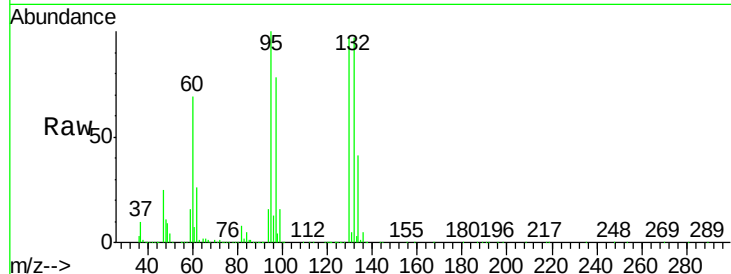
#38
 Trichloroethene
 Concen: 128.073 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Instrument :
 MSVOA_L
 ClientSampled :
 SV-01

Tot Ion	Ratio	Lower	Upper
130	100		
95	103.0	88.5	132.7
132	99.5	78.0	117.0
97	80.2	59.3	88.9

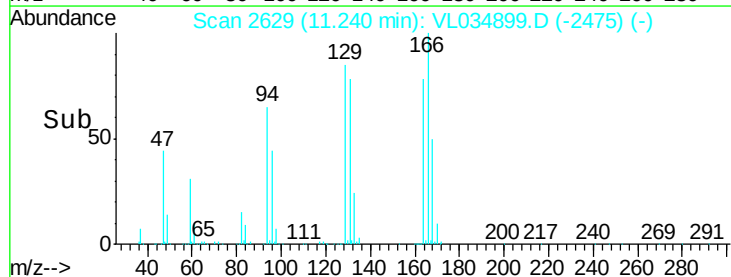
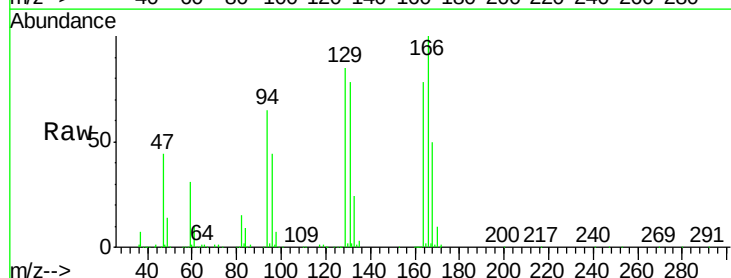
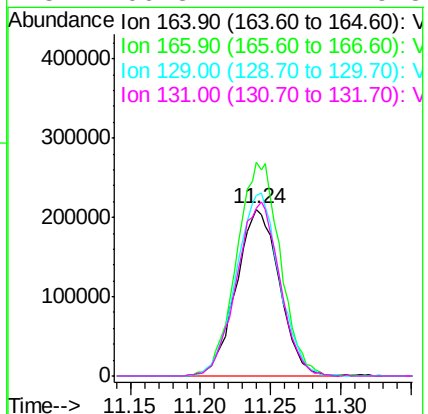
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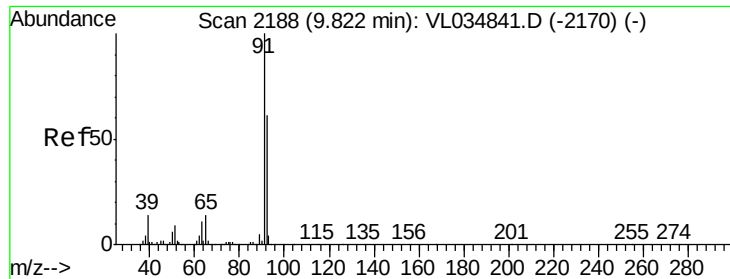
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#52
 Tetrachloroethene
 Concen: 6.511 ppbv
 RT: 11.24 min Scan# 2629
 Delta R.T. -0.01 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.0	150.0
129	108.3	83.1	124.7
131	100.3	77.2	115.8





#53

Toluene

Concen: 0.337 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion: 91 Resp: 67650

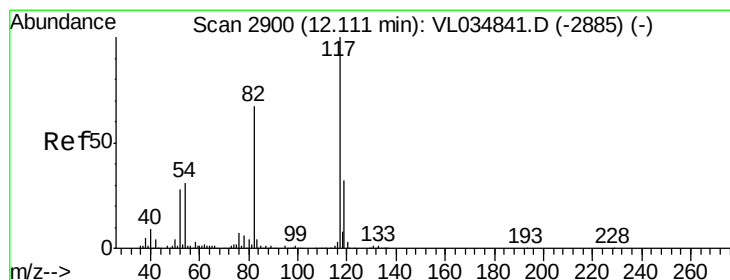
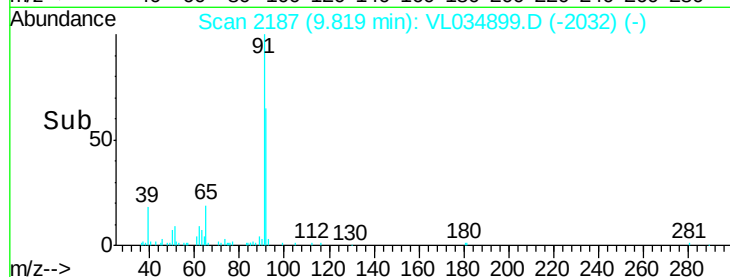
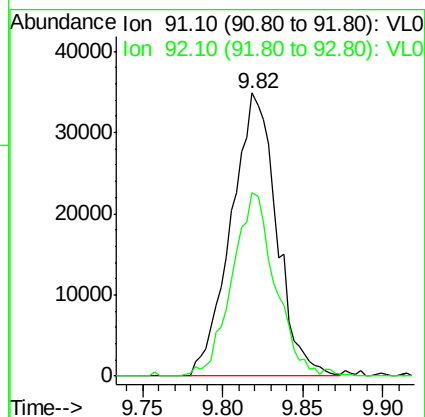
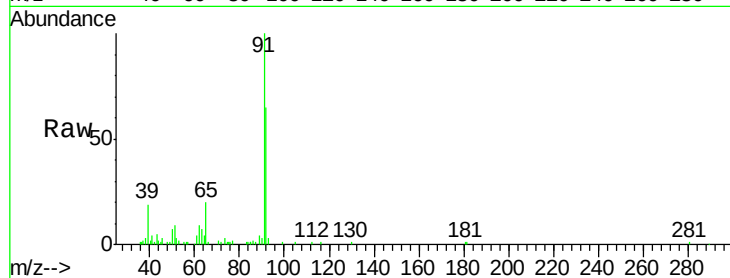
Ion Ratio Lower Upper

91 100

92 61.7 48.6 72.8

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

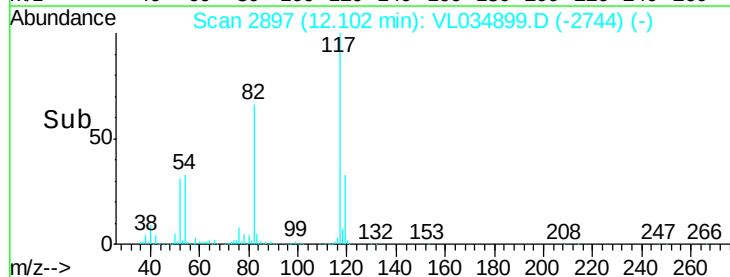
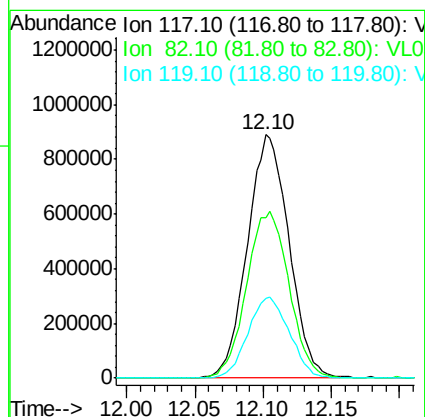
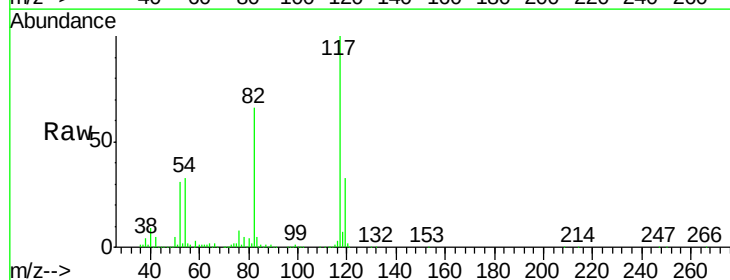
Tgt Ion: 117 Resp: 1884439

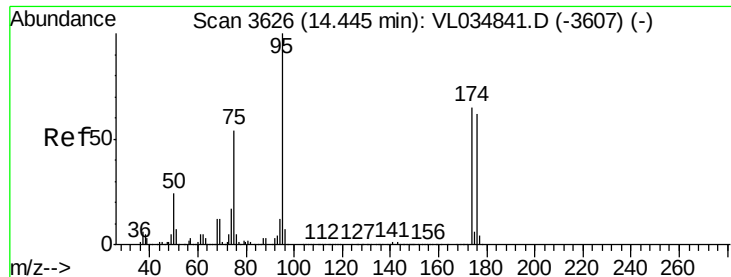
Ion Ratio Lower Upper

117 100

82 70.4 51.1 76.7

119 33.3 27.3 40.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.284 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Instrument :
 MSVOA_L
 ClientSampled :
 SV-01

Tot Ion: 95 Resp: 1511373
 Ion Ratio Lower Upper
 95 100
 174 64.4 55.2 82.8
 175 4.9 4.3 6.5

Manual Integrations
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 3/17/2020 12:16:07 PM

